

UNIVERSITY OF TORONTO
AT MISSISSAUGA

Erindale College

1998-1999
CALENDAR



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Erindale College is one of the eight Colleges that constitute the Faculty of Arts and Science in the University of Toronto. The College offers the Arts and Science Program and students may qualify for the University of Toronto Bachelor of Arts, Bachelor of Science or Bachelor of Commerce degree. The admission regulations are those of the University of Toronto.

On January 8, 1975, the College of Arms granted to Erindale College its coat of arms. Green and gold, the colours of Erindale, predominate in the coat of arms representing the natural beauty of the campus. The oak tree comes from the University of Toronto coat of arms with its motto, *Velut arbor aevo*, "May the tree thrive". The wavy blue and silver bars in the chevron signify the location of the College at a major bend in the Credit River and the motto, *Tantum Nobis Creditum*, "So much has been entrusted to us" is a word play on the name of the river.

Erindale College is located thirty-two kilometres west of downtown Toronto on Mississauga Road, in the City of Mississauga. Anyone wishing information about the College may write to: Registrarial Services, Erindale College, University of Toronto, Mississauga Road, Mississauga, Ontario, L5L 1C6.

For information, phone 905-828-5399 or E-mail: erinreg@credit.erin.utoronto.ca or visit our Web site at <http://www.erin.utoronto.ca>

From the Principal

Welcome to the University of Toronto at Mississauga, Erindale College. We offer you a wide range of academic programs in humanities, science, social science and management. Our campus is a beautiful place wherein to pursue your studies, to live and to learn. We give you the best of both worlds — the opportunity to study at a large, first-class university with incredible resources and to do so in the environment of a smaller group.

We have the highest quality faculty and staff who are committed to giving you all the help you need, academic and non-academic, both inside and outside the classroom. Of course, your fellow students are a vital source of information and guidance, and some of them will become life-long friends.

Your most important reason for being here is your academic studies. Obviously, they will take precedence, but do not ignore the social side of campus life. Become involved in student clubs, make use of our (soon to be built) Student Centre, our athletic facilities and the campus itself.

Our 225 acre campus has trails that take you around the campus and connect you with a city park on the Credit River. Take the time to walk these trails to "recharge your batteries".

This year we are constructing two new buildings on campus—Phase VI residence and the Student Centre. I ask you to be patient and to accept the inconvenience that such construction causes, and by fall 1999, we will have two new wonderful facilities for our students.

My office door is always open to students, so do not hesitate to see me if a need arises, or indeed, simply to say hello. My best wishes for the coming year and I hope all your years here are intellectually stimulating and rewarding in all aspects.

Robert H. McNutt
Principal

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Important Information

This Calendar provides information for Erindale College only. Separate calendars are published by the University of Toronto for the St. George campus and Scarborough College.

1. Changes in Programs of Study

The programs of study that our Calendar lists and describes are available for the year to which the Calendar applies. They may not necessarily be available in later years. If the University or the College must change the content of programs of study or withdraw them, all reasonably possible advance notice and alternative instruction will be given. The University, however, will not be liable for any loss, damages, or other expenses that such changes might cause.

2. Change in Courses

For each program of study offered by the University through the College, the courses necessary to complete the minimum requirements of the program will be made available annually. We must, however, reserve the right otherwise to change the content of courses, instructors and instructional assignments, enrolment limitations, pre-requisites and co-requisites, grading policies, and timetables without prior notice.

3. Change in Regulations and Policies

The University has several policies that are approved by the Governing Council and which apply to all students. Each student must become familiar with the policies. The University will assume that he or she has done so. The rules and regulations of the College are displayed here. Applicable University policies are either fully displayed here or listed here.

In applying to the College the student assumes certain responsibilities to the University and the College and, if admitted and registered, shall be subject to the rules, regulations, and policies cited in the Calendar.

4. Changes in Fees

The University reserves the right to alter the fees and other charges described in the Calendar.

5. Calendar Limitations

The University makes every reasonable effort to plan and control enrolment to ensure that all of our students are qualified to complete the programs to which they are admitted, and to strike a practicable balance between enrolment and available instructional resources. Sometimes such a balance cannot be struck and the number of qualified students exceeds the instructional resources that we can reasonably make available while at the same time maintaining the quality of

instruction. In such cases, we must reserve the right to limit enrolment in the programs, courses, or sections listed in the Calendar, and to withdraw courses or sections for which enrolment or resources are insufficient.

6. Copyright in Course Lectures

If a student wishes to tape-record, photograph, video-record or otherwise reproduce lecture presentations, course notes or similar materials provided by instructors, he or she must obtain the instructor's written consent beforehand. Otherwise all such reproduction is an infringement of copyright and is absolutely prohibited. In the case of private use by physically disabled students, the instructor's consent will not be unreasonably withheld.

7. Student Number

Each student at the University is assigned a unique identification number. The number is confidential. The University, through the Policy on Access to Student Records, strictly controls access to student numbers. The University assumes and expects that students will protect the confidentiality of their student numbers.

8. Limitation of Enrolment

University policy stipulates that the number of students in a course may not exceed the number permitted by fire regulations. The College also limits the number of students in any course or any section of a course if the number wishing to take the course should exceed resources available. However, every effort is made to accommodate students in 100 level courses.

9. Registration Eligibility

Receipt of registration material or any college publication, submission of a registration form or payment of fees does not necessarily constitute eligibility to register in the coming session. Students who are suspended as a result of the May or August examinations will be so informed on the Statement of Results and will not be permitted to register. Any fees paid toward the session will be refunded in full.

10. No Smoking Policy

Smoking is *not* allowed in any buildings at Erindale College.

CALENDAR

1998

January	February	March	April
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CALENDAR

1999

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1998

April 13	1998 Summer Session registration begins.	July 17	Last date to drop 98S H and Y courses from academic record and GPA*.
May 8	Last date for registration for 98S A,F,H and Y courses. After this date, a late registration fee will be imposed.	July 17	Deadline for students enrolled in Summer Session who expect to graduate at Fall Convocation to notify Registrarial Services and to change program enrolment.
May 8	Last date to petition for extensions of time for term work for 97W B, H, S and Y courses.	July 24	Last date to drop 98S B and S courses from academic record and GPA*.
May 11	98S classes begin in A,F,H and Y courses.	August 3	Civic Holiday - University closed.
May 15	**Last date to petition for deferred exams or rewrites of final exams from 97W B, H, S and Y courses.	August 7	Classes end in 98S B,H,S and Y courses; all term work is due by this date.
May 15	Last date to add A,F,H and Y courses for 98S.	August 10-14	Final examinations in 98S B,H, S, and Y courses.
May 18	Victoria Day - University closed.	August 14	First Registration Period for 1998 Winter Session ends.
May 29	Mailing of Statements of Results (97W) begins.	August 14	Last date to petition for extensions of time for 98S B, S and Y courses.
June 1	Last date to request transfer to St. George Campus for full-time studies.	August 21	**Last date to petition for deferred exams or rewrites of final exams from 98S B, H, S and Y courses.
June 5	Last date to drop 98S A and F courses from academic record and GPA*.	August 31 - Sept 11	Second Registration Period for 98W.
June 18	Faculty of Arts & Science, Erindale Convocation.	September 3	Mailing of Statements of Results (98S) begins.
June 19	Classes end in 98S A and F courses; all term work is due by this date.	September 4	University closed.
June 22-26	Final examinations in 98S A and F courses.	September 7	Labour Day - University closed.
June 26	Last date for 98S registration for B and S courses. After this date, a late registration fee will be imposed.	September 11	Last date for students not registered in 98S who expect to graduate at Fall Convocation to notify Registrarial Services and to change their program.
June 26	Last day to petition for extensions of time for term work for 98S A and F courses.	September 11	Last date for registration for the 1998 Winter Session. After this date, a late registration fee may be imposed.
June 29	Second term classes begin in 98S B and S courses.	September 14	98W classes begin in A,F,H and Y courses.
July 1	Canada Day - University closed.	September 25	Last date to add 98W A,F,H and Y courses and to submit Program enrolment forms to Registrar.
July 2	First Registration Period for 1998 Winter Session begins.	October 2	Deadline for students expecting to graduate at June 1999 Convocation to submit degree request.
July 3	**Last date to petition for deferred exams or rewrites of final exams from 98S A and F courses.		
July 6	Last date to add B and S courses for 98S.		

October 12	Thanksgiving Day - University closed.	April 19-May 7	Final examinations in 98W B,H, S and Y courses.
November 6	Last date to drop 98W A and F courses from academic record and GPA*.	May 17	1999 Summer Session classes begin in A,F,H and Y courses.
November 24	Faculty of Arts & Science, Erindale Convocation.	May 21	University closed.
December 11	98W first term ends; all term work in A and F courses is due by this date.	May 24	Victoria Day - University closed.
December 14-22	98W final examinations in A and F courses. Term tests may be held in multi-section H and Y courses.	May 31	Mailing of Statements of Results (98W) begins.
December 22	Last date to petition for extensions of time for 98W A and F courses.	June 1	Last date to request transfer to St. George Campus for full-time studies.
December 22	**Last date to petition for rewrites of 98W A and F courses.	mid-June	Faculty of Arts & Science Convocations. (T.B.A.)
December 22	Last date to request corrections to 1997-98 Winter and 1998 Summer academic records. After this date no further requests for corrections to these academic periods will be considered.	June 25	Classes end in 99S A and F courses; all term work is due by this date.
Dec 23 - Jan 3	Christmas Holidays - University closed.	June 28-July 2	Final examinations in 99S A and F courses.
		July 1	Canada Day - University closed.
		July 5	99S second term classes begin in B and S courses.
		August 2	Civic Holiday - University closed.
		August 13	Classes end in 99S B,H,S and Y courses; all term work is due by this date.
		August 16-20	Final examinations in 99S B,H, S and Y courses.

1999

January 4	98W second term begins.
January 8	**Last date to petition for deferred exams of final exams from 98W A and F courses.
January 15	Last date to add 98W B and S courses. Second fees installment due.
February 12	Last date to drop 98W H and Y courses from academic record and GPA*.
February 15-19	Reading Week.
March 5	Last date to drop 98W B and S courses from academic record and GPA*.
April 2	Good Friday - University closed.
April 9	98W second term ends; all term work in B,H,S and Y courses is due by this date.
April 12-16	Study period; no tests or exams may be held.

NOTE: *After this deadline a mark is recorded for each course, whether course work is completed or not (a "0" is assigned for incomplete work), and calculated into the GPA.

Course suffixes in this section refer to those which appear in the *Registration and Timetable Information Booklet*.

****Definition of:**

1. Deferred Examination:
The writing of an examination at a later date than the scheduled examination date.

2. Rewrite:
A second writing of an examination already written.

2 Admission Information

The Undergraduate Admissions handbook contains complete information on entrance requirements. To obtain this handbook, contact Admissions and Awards, 315 Bloor Street West, Toronto, Ontario, M5S 1A3; telephone (416) 978-2190. The entrance requirements to Erindale are those of the University of Toronto, including the regulations for admission as a non-matriculant.

You may be admitted to the University of Toronto in one of the following ways, depending upon whether you have a sufficiently high standing in your previous academic work:

1. Upon successful completion of the full Ontario Secondary School Diploma (OSSD) (or equivalent) and six Ontario Academic Courses as outlined below.
2. With previous degree studies at a recognized university.
3. As a non-matriculant student with less than the full admission requirements.

Candidates Applying from an Ontario Secondary School - 1998-99

- Applicants must be eligible to receive the Ontario Secondary School Diploma (OSSD).
- Applicants must present at least six Ontario Academic Courses (OACs).
- One credit must be English I OAC (ENGOAO) or OAC Anglais I or II.
- Applicants must present credits to satisfy any prerequisites of specific courses in which they intend to enrol. Please consult page 10 of the Erindale College Calendar 1998-99 and individual course descriptions outlined in Section 9.
- Applicants intending to enrol in science courses should include OAC Calculus and OAC Algebra & Geometry in their subject selections. Chemistry requires OAC Chemistry; Astronomy and Physics require OAC Physics.
- Applicants intending to enrol in Commerce & Finance and Economics should include OAC Calculus and OAC Algebra & Geometry.
- Applicants whose first language is not English and who have studied full time in an English language school system for less than four years must present proof of English facility.

In addition to marks in OAC subjects, a student's overall academic record may be taken into consideration. Applications will be considered from candidates whose qualifications do not meet the normal requirements, but such candidates will have to offer written evidence of exceptional ability or of extenuating circumstances.

Admission with Transfer Credit

Candidates who have acceptable standing at other universities, or at other Faculties or Schools of this University including Scarborough College, may be considered for admission with transfer credit.

Acceptance of transfer credits among universities shall be based on the recognition that, while learning experiences may differ in a variety of ways, their substance may be virtually equivalent in terms of their content and rigour. Insofar as possible, acceptance of transfer credit should allow for the maximum recognition of previous learning experience in university-level courses.

Subject to degree, grade and program requirements, any course offered for credit by one university shall be accepted for credit by another Ontario university when there is virtual equivalency in course content.

The Faculty grants a maximum of five transfer credits to students who have completed the requirements for a degree or diploma.

Otherwise, a maximum of ten transfer credits will be granted.

Note: Regardless of the number of transfer credits granted, at least two of the three 300/400 level courses required for a B.A./B.Sc. degree, or five of the six 300/400 level courses required for an Honours B.A./B.Sc. or B.COM. degree must be completed with suitable standing in this Faculty.

Admission of External Students to a Second Degree Program

Applicants who hold a bachelor's degree, or equivalent, from another university, and who wish to complete a second undergraduate degree in Arts and Science, may apply for admission into a degree program. To apply for admission to a second degree program contact Admissions and Awards, 315 Bloor Street West, Toronto, Ontario M5S 1A3; (416) 978-2190.

Admission as Non-Matriculants

Candidates at least twenty-one years of age who are Canadian citizens or permanent residents of Canada and do not hold the published admission requirements, and who have been resident in Ontario for at least one year, may apply for admission as non-matriculants. They must present proof of age, and must complete, with high standing, at least one of the Pre-University courses offered by Woodsworth College. Two of these courses are offered at Erindale. All candidates should consult the Counselling Staff at Admissions and Awards, (416) 978-2190 before enrolling in any Pre-University course.

Admission as Special Students

Special Students are registered in the Faculty but are not progressing towards a degree offered by the Faculty. Most Special Students have completed degree studies and are taking further courses for their own purposes, including admission to graduate studies. Students admitted as degree students cannot become Special Students unless they have completed an Honours (four-year) degree, or are returning to the Faculty as Visiting Students on a Letter of Permission from another institution. Further information and applications are available from Registrarial Services, Room 2122, Telephone (905) 828-5399. [Erindale College may not always have sufficient capacity to admit Special Students.]

Admission as Visiting Students

Students with valid Letters of Permission from other accredited North American universities may register at Erindale College as Visiting Students, taking courses for transfer credit at their home university. Visiting Student status does NOT imply automatic future acceptance as either a Degree Student or a Special Student. Further information and applications are available from Registrarial Services, Room 2122, Telephone: (905) 828-5399. [Erindale College may not always have sufficient capacity to admit Visiting Students.]

Admission of Senior Citizens

Canadian citizens or permanent residents of Canada who are at least sixty-five years of age by the first day of the term may apply for admission to the College as part-time Special Students. They do not have to meet the academic requirements for admission. Further information is available from Registrarial Services, Room 2122, Telephone: (905) 828-5399.

Admission "On Probation"

Students who have previously studied in other Faculties or Institutions and who do not meet the Faculty's requirements for admission may on appeal be admitted subject to the following conditions:

1. They will be "On Probation" until the end of the session in which they attempt the fourth course in the Faculty, excluding transfer credits.
2. At the end of the session in which the fourth course is attempted they will be assessed as follows:

- a) students with a Cumulative Grade Point Average (CGPA) of 1.50 or more will continue in good standing;
 - b) students with a CGPA of less than 1.50 but a Sessional GPA (SGPA) of 1.70 or more will continue "On Probation";
 - c) students with a CGPA of less than 1.50 and a SGPA of less than 1.70 will be suspended for one calendar year. On return to the Faculty they will remain "On Probation", and will be under the regulations for academic status outlined on Section 7 of the Erindale College Calendar.
3. While on probation, students are ineligible to enrol for transfer credit in courses outside of the University.

Applications and Information

Applications and further information are available from:

Admissions and Awards University of Toronto 315 Bloor Street West Toronto, Ontario M5S 1A3 Tel: (416) 978-2190 e-mail: ask@adm. utoronto.ca	Registrarial Services Erindale College University of Toronto Room 2122 3359 Mississauga Rd. Mississauga, Ontario L5L 1C6 Tel: (905) 828-5399
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Deadline Dates

Application should be made as early as possible in the year for which admission is sought. The final dates are:

For Summer Session 1998

First Term:	March 15, 1998
Second Term:	May 15, 1998

For Winter Session 1998

Full-time studies:	April 1, 1998
Part-time studies:	June 1, 1998

NOTE: Overseas applicants must apply by March 1, 1998.

Candidates who use the application form issued by the Ontario Universities' Application Centre are warned that the completed forms and amendments to program choices must be received by the Centre on or before the dates listed above.

Residence

Please see full description in Section 5. For information, telephone (905) 828-5286.

Secondary School Prerequisites

The courses listed below have OAC or equivalent prerequisites:

AST110H	(recommended): OAC Physics + OAC Calculus + OAC A&G
BIO151Y	OAC Biology; Recommended: 60% in one OAC Science & two OAC Mathematics courses.
BIO204H	OAC Biology (70%)
BIO205H	OAC Biology (70%)
BIO206H	OAC Biology (70%)
CHM140Y	OAC Chemistry + OAC Calc + OAC A&G + (recommended) OAC Physics
CSC108H	Grade 12 Mathematics
CSC148H	Two OAC Mathematics
FSL163H	OAC French
FRE180Y	OAC French
FSL261Y	OAC French (Immersion)
FSL280Y	OAC French (Immersion)
GGR215H	OAC Mathematics
GGR407H	OAC Chemistry
GER202Y	OAC German
GER204Y	OAC German
ITA200Y	OAC Italian
ITA210Y	OAC Italian
ITA221Y	OAC Italian
ITA230Y	OAC Italian
ITA235Y	OAC Italian
ITA243Y	OAC Italian
LAT228Y	OAC Latin
MAT132Y	OAC Calc + OAC A&G
MAT138Y	OAC Calc + OAC A&G
MAT222H	OAC A&G
PHY135Y	OAC Physics + OAC Calc + OAC A&G/OAC FM
PHY140Y	OAC Physics + OAC Calc + OAC A&G (recommended)/OAC FM
PSY201H	Any OAC Mathematics
STA107H	OAC Calc

For Sciences:

Applicants are reminded that they should include in their OAC subject selection the following courses: OAC Calculus and OAC Algebra & Geometry for first year science courses and the OAC course(s) in the relevant subject(s).

For Commerce or Economics:

Applicants intending to study Commerce or Economics are advised to include OAC Calculus and OAC A & G.

3 Fees and Scholarships

Tuition fees are established by the Governing Council and set out in detail in the *Fees Schedule*. Tuition fees normally consist of two parts: academic fees (including instruction and library) and incidental fees (including Hart House, Health Service, athletics, student services, and student organizations). Additional fees may also be assessed to cover such items as instruments, microscopes and field trips. Fees are subject to change at any time by approval of the Governing Council.

The following information is intended only as a general guide and may be superseded by that in the *Fees Information Booklet*, which should be consulted for accurate, detailed information.

Enquiries regarding fees matters may be made by phoning the Fees Department at (416) 978-2142.

Payment of Fees

All fees payments are to be made at a bank. Consult the *Fees Information Booklet* for details.

Use of Awards to Pay Fees

a) Ontario Student Assistance Program (OSAP)

Students may pay their fees out of their own funds without jeopardizing their OSAP. Students wishing to use their OSAP to pay their fees should enclose a copy of their OSAP Student Information Document, which they will receive from the Ministry of Education and Training, with their fees remittance slip and send to the Fees Office. Payment of fees will then be deferred until the loan is received by the student.

Students who have applied for OSAP prior to the published deadline date but have not received their Student Information Document should contact the Office of Admissions and Awards or Registrarial Services at Erindale College to obtain a deferral form. The signed deferral form must be sent to the Fees Office, 215 Huron Street, Toronto, Ontario, M5S 1A2. Fees deferrals must be submitted well in advance of payment deadlines published in the Registration Booklets.

b) Scholarships and Bursaries

The Fees Department will credit students' fees accounts with any scholarships or bursaries paid by or through the University. If fees are to be deferred i.e. the award covers the total fee charge (or minimum payment): indicate on the fees invoice the name of the scholarship and **return to the Fees Office** as above. After deduction of fees from award, any remaining balance will be refunded in mid-October. If payment is to be made i.e. the award does not

cover the total charge (or minimum payment): calculate the amount to be paid, indicate the name of the scholarship and payment amount on the fees invoice remittance, and pay that amount at the Bank.

Payment Deadlines (For the Winter Session)

Fees payment is required to complete registration. Fees may be paid in full or a minimum payment, consisting of 60% of academic fees and 100% of incidental fees, may be made as indicated on the *Fees Schedule*. All accounts must be paid in full by January 15th.

In order to avoid delays students are advised to pay their fees early.

All outstanding balances, regardless of the source of payment, are subject to a service charge of 1 1/2% per month compounded, which is first assessed on October 15th and on the 15th of each month thereafter until the account is paid in full.

Students who have outstanding accounts may not receive official transcripts or diplomas and may not register again at the University until these accounts are paid. Registration of students owing fees will be cancelled at any time.

Sanctions on Account of Outstanding Obligations

The following are recognized University obligations: (a) tuition fees; (b) academic and other incidental fees; (c) residence fees and charges; (d) library fines; (e) bookstore accounts; (f) loans made by Colleges, the Faculty or the University; (g) Health Service accounts; (h) unreturned or damaged instruments, materials and equipment; (i) orders for the restitution, rectification or the payment of damages, fines, bonds for good behaviour, and requirement of public service work imposed under the authority of the *Code of Student Conduct*.

The following academic sanctions will be imposed on Arts and Science students with outstanding University obligations which have been reported to the Faculty in a timely and accurate manner:

1. Official transcripts of record will not be issued.
2. The University will not release either the official document (called the diploma) which declares the degree earned, nor provide oral confirmation or written certification of degree status for external enquirers.
3. Registration will be refused or withdrawn to continuing or returning students.

Payments made by continuing or returning students will first be applied to outstanding University debts and then to current fees.

Fees for International Students

In accordance with the recommendations of the Government of Ontario, certain categories of students who are neither Canadian citizens nor permanent residents of Canada were charged tuition fees of approximately \$8,943.85 for a full-time course load in the 1997-98 winter session. Refer to the *Fees Schedule* for current fees charges.

Scholarships and Awards

Scholarships are awarded on the basis of academic merit and fall into the following categories:

1. Admission Scholarships:
Value: \$800.00-\$4,000.00
2. In-Course Awards:
Value: \$50.00-\$2,500.00
 - a) General awards
 - b) Division of Humanities awards
 - c) Division of Sciences awards
 - d) Division of Social Sciences awards
 - e) University awards
 - f) Faculty of Arts and Science awards
 - g) The Dean's Honour List
 - h) Dean's List

Awards may be monetary, medals and in some cases, a certificate. Full information on scholarships and other awards is available from Registrarial Services, South Building (905) 828-5234.

Government Financial Aid - OSAP

The Ontario Student Assistance Program (OSAP) is available to Ontario residents who are Canadian citizens or permanent residents to assist with educational and living expenses. OSAP loans are interest-free and non-repayable while the student remains enrolled in full-time studies. The Loan Forgiveness Program provides partial forgiveness of loans at graduation for students who have incurred large debt loads.

Information concerning the eligibility and assessment criteria may be obtained from Admissions and Awards, University of Toronto, (416) 978-2190. Application forms are available from Registrarial Services, South Building, University of Toronto at Mississauga, (905) 828-5234, and from Admissions and Awards. It is recommended that returning students apply for OSAP assistance by May 31 and that new students apply by June 30.

Students from other Canadian provinces should apply through their provincial financial aid authority. Admissions and Awards can provide addresses and, in many cases, application forms.

Bursary for Students with Disabilities

Non-repayable assistance of up to \$5000 is available from the federal and provincial governments for OSAP recipients who have special educational expenses as a result of a disability. Information and applications are available from Admissions and Awards or from the AccessAbility Resource Centre, (905) 828-3847.

Ontario Work-Study Plan

This program is funded by the University and the Ministry of Education and Training, and provides on-campus, part-time employment to students with financial need. Eligibility information and applications are available from Admissions and Awards, (416) 978-2190, or from Registrarial Services, (905) 828-5399.

Bursaries

Students who have explored all other avenues of financial assistance (e.g. family support, OSAP) and still have unmet financial need may apply for an Erindale College bursary. Application forms may be obtained from Registrarial Services, (905) 828-5234, starting in late October each year.

Please see the Scholarships and Financial Aid notice boards at University of Toronto at Mississauga, for details of other bursaries.

Budgeting Workshops

Registrarial Services provides Budgeting Workshops that offer guidance on how to balance expenses, such as tuition and living costs, with resources such as OSAP and study period income. Further information can be obtained by contacting Registrarial Services, (905) 828-5234.

4 Student Organizations

The Erindale College Student Union (ECSU)

The Erindale College Student Union serves as an important link between students and the administration of the College and University. ECSU owns and operates the Blind Duck Pub and Radio Erindale. ECSU also sponsors concerts, lectures, and over 50 student clubs.

All full-time undergraduate students of the College are members of ECSU and are entitled to attend meetings, sit on committees and vote in the general election of officers to the Union. The ECSU office is open all year.

Office hours are:

Winter: Monday - Friday
9:00 a.m. - 4:30 p.m.

Summer: Monday - Friday
9:00 a.m. - 4:00 p.m.

Office: Room 13, Crossroads Bldg.
(905) 828-5249

E-mail: ecsu@credit.erin.utoronto.ca

Fax: (905) 828-5312

Part-Time Students at University of Toronto at Mississauga (PTS@UTM)

PTS@UTM is an independent organization of part-time students at University of Toronto at Mississauga. It is funded through the APUS fees paid by Erindale part-time students.

PTS@UTM has a four-person Executive Committee and operates on a class representatives system similar to that of APUS. PTS@UTM encourages all students, full or part-time, to be Class Reps. Visit our office and help us enhance services to part-time students at University of Toronto at Mississauga!

Office hours are:

Monday - Thursday:
11:00 a.m. to 3:00 p.m. &
4:00 p.m. - 7:00 p.m.

Friday:
10:00 a.m. - 2:00 p.m.

In Summer, closed on Friday
Office: Room 131B, North Bldg.
(905) 828-5422

E-mail: ecepus@credit.erin.utoronto.ca

Fax: 905-569-4384

The Association of Graduate Students at Erindale (AGSAE)

AGSAE is an organization for graduate students at University of Toronto at Mississauga. We are here to answer questions, deal with policies that affect graduates, serve as a liaison to the administration, and organize various events (social and otherwise). AGSAE is considered a 'course union' under the Graduate Student Union (GSU) and we receive our funding from GSU. Contact: Nicole Dinaut, Chemistry Department, (905) 569-4378, e-mail: andinaut@credit.erin.utoronto.ca or Nick Panou, MMPA Program, (905) 828-3985.

The Erindale College Athletic and Recreation Association (ECARA)

ECARA is a student organization which plans and operates athletic and recreational activities for the Erindale College Community. These include: on-campus intramural sport leagues and tournaments; interfaculty team competition against other U. of T. colleges and faculties; sport and recreational clubs; as well as special event programming such as the Annual Mississauga Olympic Weightlifting Competition and the Athletics Banquet. ECARA also provides many leadership development opportunities such as sport commissioners, coaches, officials, and event volunteers.

All full and part-time undergraduate students of the College are fee paying members of ECARA and entitled to vote in the general election of athletic representatives to ECARA Council. The ECARA Council Office is open Sept. - May (905) 828-5498. Call the Athletics Hotline at (905) 828-5268 for updated information year round.

The Erindale College Council

Student positions are available on the College Council and its standing committees. Students are encouraged to become involved with these decision-making bodies of the college. Contact Ms. M. Hanna, Principal's Office, (905) 828-5233 for further details.

Other University of Toronto Organizations

The Students' Administrative Council (SAC)

SAC is the central student government for all full-time undergraduates. Members are elected from their local college or faculty.

Office: 12 Hart House Circle (416) 978-4911.

The Association of Part-Time Undergraduate Students (APUS)

All part-time undergraduate students at the University of Toronto are members of APUS. We ensure that all our members have access to a broad range of services, resources and programs at the University. APUS offers a number of scholarships, bursaries and a Health Plan for all part-time students. All this information is available at the PTS@UTM Office.

The APUS Services Office, on the St. George Campus, offers previous years final exams, photocopying and a friendly staff to answer student questions. For further information, please contact us.

Sidney Smith Hall, 100 St. George St., Room 1089

Phone: (416) 978-3993

Fax: (416) 971-1393

E-mail: APUS@APUS.utoronto.ca

WWW: www.APUS.utoronto.ca

5 Student Services

Academic Skills Centre

The Academic Skills Centre is an academic service designed to help undergraduate students, graduate students, TAs, and faculty meet their teaching/learning needs and objectives. Students are encouraged to become involved in the programs provided at the Centre to enhance and enrich existing skills and to prepare for the academic challenges that each new year brings. The Centre offers diagnostic assessments of your academic skills, seminars, interactive workshops, non-credit courses, individual consultations, and a new peer mentoring program. The Centre's mission is to assist you, your peers, and the faculty in fulfilling the educational mandate of the College. The Centre is located in the Meeting Place in the South Building, Rm. 2115B. For more information, please call 828-3858.

AccessAbility Resource Centre

UTM and the AccessAbility Resource Centre are committed to the inclusion of students, who have disabilities, into all aspects of campus life (e.g. physical access on campus, liaison with faculty, staff and community agencies). Our focus is on skills development, especially in the areas of self-advocacy and academic skills (*please see Academic Skills Centre*).

The Centre provides services to students who have a physical, sensory, or learning disability, mental health disorder, acquired brain injury or chronic health condition. A disability or health condition can be visible or hidden. Students who have temporary disabilities (e.g. broken dominant arm) are also eligible to receive services. All students must have an intake interview with the Coordinator to discuss their individual needs.

Services to students include:

- alternative test and examination arrangements
- notetaking services
- access to an academic skills strategist at the Academic Skills Centre
- evaluation of needs for assistive technology
- access to registered psychologists for psychoeducational assessments and consultations
- information and resource materials on disabilities, health considerations and disability related issues
- referrals to professionals within the College and in the community

For more information please contact the Coordinator at (905) 828-3847, e-mail the Centre at access@credit.erin.utoronto.ca or visit the office located in the South Building, Room 1113.

Athletics and Recreation

The Department of Athletics and Recreation, with the student-run Erindale College Athletic and Recreation Association (ECARA), offers a wide range of sport, recreation, dance and fitness activities for the University of Toronto at Mississauga. Our athletic facilities have attracted the CFL's Toronto Argonauts Football Team to choose our campus as their home practice and training facility.

Indoor facilities include:

The "Fit Stop" - Dedicated Circuit Training Room
Fitness Centre - Full Cardio, Nautilus, Free Weights Equipment
Olympic Weightlifting and Powerlifting Centre
Gymnasium
Three Squash Courts
Aerobic/Dance/Martial Arts Studio

Outdoor facilities include:

Two Playing Fields
Soft Ball Diamond
Two sand Volleyball Courts
Six Tennis Courts (Four lighted)
Outdoor Swimming Pool

Support from athletics staff is provided to ECARA student-run activities which include: On-campus intramural sport leagues and tournaments; interfaculty team competition against other U of T Colleges and Faculties on the downtown St. George Campus, sport and recreational clubs; as well as special event programming such as the Athletic Awards Banquet. In addition to the facilities on the Erindale Campus, students may utilize the same on the St. George Campus. For inquiries regarding Athletics and Recreation, telephone (905) 828-5269.

Campus Police

The University of Toronto Police Service is a department devoted to providing a safe and secure atmosphere for students, staff and visitors to the university.

Each officer of the University of Toronto Police has been appointed as a Special Police Constable as set out by the Ontario Police Services Act. Each officer is equipped with full police powers with regards to arrest, search and seizure.

The primary responsibilities of the University of Toronto Police consist of the following:

- the safety and security of all staff, students and visitors while at the University of Toronto at Mississauga
- the protection of property
- the implementation of community policing and crime prevention programs
- the enforcement of Federal, Provincial and Municipal laws
- the enforcement of University of Toronto regulations
- emergency assistance

- conflict resolution and maintenance of public order
- traffic and crowd control

The University of Toronto Police are on duty 24 hours per day, 365 days a year and provide patrols of the campus by means of a fully marked patrol car, bicycles (which are used during the spring, summer, and fall months), and on foot. The University of Toronto Police are also available to provide personal safety and crime prevention assistance.

For further information about the University of Toronto Police, telephone (905) 828-5200, e-mail us at police@credit.erin.utoronto.ca, or visit our WWW site at <http://www.erin.utoronto.ca/~police/>

Career Centre

Career Counselling

Workshops and individual appointments are available to assist you with career planning and looking for work. The focus is skills identification and development. Résumés and employment applications are also critiqued. Volunteer Listings: opportunities to build skills through volunteering in a wide range of career areas are available through our Volunteer Listings.

Career Information

There is a Resource Library full of materials on careers, employment, and educational programs. Inquire about annual events like Professional Schools Fair and Careers Night. Participate in our Extern Career Exploration Program in Reading Week and May.

Employment Services

The Graduating Students Employment Service is one way of accessing full-time employment. Representatives from medium to large organizations visit the University of Toronto to recruit graduating students for full-time positions. Register for this service early in September.

Recent Graduates Employment Service: Lists current employment vacancies available to new graduates year round.

Summer & Part-time Employment: Listings are received on an ongoing basis and are posted in the Career Centre. Government programs are advertised through this service.

Employment opportunities are located in Mississauga, in Greater Toronto and on campus.

<i>St. George Campus</i>	<i>Erindale Campus</i>	<i>Scarborough Campus</i>
Koffler Centre	South Bldg.	Student Serv.
214 College St.	Room 3094	Room S-302F
(416)978-8000	(905)828-5451	(416)287-7561

Child and Family Resource Centre

Services Include:

- Information on Parent and Family Support Services, Child Care, After School programs, and Elder Care Services in the Peel Region.
- A registry of formal and informal child care providers, and listings of child care centres in the Peel Region.

For more information, telephone (905) 828-3846.

Child Care Centre

The Erindale College Child Care Centre provides affordable child care in a warm home-like environment for the children of students, staff and faculty. The Centre is located on the campus in the married students' residences, Units 227 and 230. The Centre provides part-time care for toddler and preschool age children. A limited number of full-time spaces are available. Emergency care is also available where space permits. Hours are booked in blocks of time and designed to meet the sometimes irregular schedules of students, staff and faculty. Hours of operation are from 9:00 a.m. - 5:00 p.m. For more information telephone (905) 828-3846.

Conference Services

The perfect location for conventions and seminars, University of Toronto at Mississauga offers the widest possible range of facilities for groups of 15 to 500. The Conference Services office deals with requests from outside organizations who wish to use the campus for meetings and gatherings of all types. During the summer months, from May to August, conference or seminar attendees can enjoy full-feature meeting rooms with complete audio/visual capabilities and excellent food service. Stay right on campus in University of Toronto at Mississauga's unique four- or six-person townhouse facilities, and enjoy an environment that's fresh, clean, safe and waiting!

For guests, we also have Thomas Cottage, a cozy 2 bedroom fully equipped/furnished cottage with fireplace, which is available on campus, for visiting parents or lecturers, at \$75.00 per night.

For more information contact Gale Richter at (905) 828-5279 or e-mail: grichter@erin.utoronto.ca

Counselling

Academic

Academic counselling is available through individual academic departments and Registrarial Services. Departmental advisors, such as discipline representatives and faculty advisors, offer detailed information on their respective programs (specialists, majors, and minors) and individual courses. Many departments offer brochures or handbooks through their offices, providing supplemental information to that contained within this Calendar. Any student who has a problem relating to the content of a course or conduct of an instructor, and cannot resolve the concern directly with the instructor, should notify the departmental advisor. Contact information is noted above the departmental descriptions in the course descriptions section of this Calendar.

Registrarial Services provides counselling related to degree requirements, college rules and regulations, interpretation of the Calendar, and personal or academic concerns that influence academic performance. Room 2122, (905) 828-5399.

Personal

Students may seek assistance with personal concerns through professional counsellors available on campus. Personal counselling is available through Registrarial Services, and the University Health Service offers psychiatric consultation and counselling. Talking with counsellors can often help students more clearly understand their personal situations, and identify ways of coping with personal concerns. Campus personal counselling services maintain professional confidentiality. Room 2122, (905) 828-5399. (Also see Health Service)

Financial

Students needing information and/or assistance in meeting the costs of their education are welcome to contact Registrarial Services. Information is available regarding budget planning and management, academic and leadership-based scholarships, government financial assistance programs such as OSAP, and bursaries that help students meet unanticipated financial hardships. Room 2122, (905) 828-5234.

Health Service

The University Health Service offers a comprehensive medical service for students on the Erindale Campus; treatment and advice are available throughout the year. Students are encouraged to discuss concerns about contraception, substance abuse, unplanned pregnancies, sexual life and sexually transmitted disease. Contraceptive medications are available at a modest cost.

Psychiatric consultation and counselling to assist students with emotional and social problems are available.

Students seek counselling for a wide range of concerns, including feelings of despondency, apathy, inadequacy or inferiority and with problems in areas of sexuality, substance abuse, parental conflict, dating, peer relationships, inability to concentrate and examination anxiety.

The primary responsibility of the Health Service is to the student; therefore, ALL CONSULTATIONS, MEDICAL AND PSYCHIATRIC, ARE STRICTLY CONFIDENTIAL and form no part of any University record. Information acquired from students will not be given to anyone at any time without the written permission of the student.

Office hours:

Monday, Thursday, Friday

9:00 a.m. - 5:00 p.m.

Tuesday, Wednesday 9:00 a.m. - 7:00 p.m.

Telephone (905) 828-5255

Library

The Erindale College Library offers a collection of print, electronic and networked resources as well as individual study accommodation and facilities for students working on group projects. A Teaching/Computer Lab provides equipment for access to the Internet as well as to a wide variety of software. Extensive instructional programs are offered to assist students in the use of information technology, and help with other specialized reference material is provided at the Librarians' Desk. A Special Services Resource Room provides equipment such as microcomputers with voice output and large print readers.

Students and faculty may also access, either in person or through the facility of Erindale's Document Delivery Service, the extensive collections of the many other libraries in the University's library system. As well, Erindale's Interlibrary Loan Service provides a connection to the resources of the International academic and research community.

Circulation Services: (905) 828-5236

Librarians' Desk: (905) 828-5237

Library Web Site: <http://www.erin.toronto.ca/library/>

Librarians

E. Goettler, B.A., M.L.S.
S. Hawrychuk, B.A., M.L.I.S.
M. Hawthorn, B.A., M.L.S.
P. King, B.A., M.L.S.
C.J. Matthews, B.A., M.L.S.
D. McLean-Lowe, B.A., M.L.S.
S. McCaskill, B.A., B.L.S., M.L.S.
J. Seel, B.A., B.L.S., M.L.S.

Quality Service to Students (QSS)

All new students face academic and personal challenges as they seek to succeed in university. To aid new students, Erindale College has developed a series of support programs through the efforts of a team approach called Quality Service to Students. The QSS group is composed of student leaders, staff and faculty who meet monthly to plan events and to discuss issues concerning student life. In June, students, who have been offered admission, are invited to attend a Symposium on Success session where they are introduced to a wide range of services and to staff and students with whom they will be involved as students at Erindale. Small Group Counselling Sessions are held during the summer to develop some of the themes introduced at Symposium. This is followed by a series of events: Orientation, Program Day, Career Day and a number of others, designed to assist all Erindale students and to inform them about the services available to them.

If you have questions about or for the Quality Service to Students group, please send a note to Dr. Les McCormick, Chair of QSS, Room 2115F.

e-mail: lmccormi@credit.erin.utoronto.ca

Registrarial Services

In addition to academic, personal, and financial counselling, this office maintains students' records and provides course registration information and assistance, final examination scheduling, appeal procedures (petitions) for exceptions to university rules and policies, recruitment and admission information, graduation requests, certification letters, and authorization letters to attend other universities as visiting students. The office also publishes the College Calendar and Timetable and Registration Booklet. Room 2122, (905) 828-5399, e-mail: erinreg@credit.erin.utoronto.ca

Residences

With 240 places reserved for freshmen and 320 reserved for senior students, University of Toronto at Mississauga, Erindale College boasts the largest on-campus residence facility at the University of Toronto. Situated on the beautiful treed campus, Erindale residents enjoy the community atmosphere created by the commercial townhouse development in which they live.

Depending on the unit, either four or six students share one house on a cooperative basis. Not being restricted by a food plan, students find they can save at least \$600 per year by purchasing and preparing their own food. The North Building cafeteria, Spigel Hall, Second Cup and Harvey's are also available for meals. Each townhouse is fully furnished and equipped with a refrigerator and stove. Living room, storage room, kitchen and dining area are on the main floor; bedrooms and a bathroom are on the upper level.

All residences are within minutes of classrooms, athletics and other student services. Once in residence, all students are eligible to apply the following year and stay together, if they so choose, until graduation after meeting the academic and administrative requirements.

There are 84 2-bedroom apartments (800 sq. feet) for families and graduate students at an approximate cost of \$725 per month plus hydro. One unit is equipped for disabled persons and the Residence office/lounge is fully accessible. There are 4- or 6-person townhouses available in other phases for student families on a **needs basis**, determined in July for September 1 occupancy on a 1 year lease. There are also six 2-person units for seniors or graduate students.

For 1997-98, from September to May, the fees for freshmen were \$2950, **boasting one of the lowest rates in Ontario**. The fees for seniors were \$2675. For the summer months, from May to August, residence is \$1275.

An off-campus housing list is available at the Residence Centre in the summer months (approximate cost \$300-\$350 per room) in suitable local homes.

Colman Lounge provides a safe place for studying, relaxing and doing laundry, with big screen t.v., pool table etc.

For further information contact the Residence Office, Colman House, University of Toronto at Mississauga, Erindale Campus, 3359 Mississauga Road, Mississauga, Ontario L5L 1C6 or telephone (905) 828-5286, or FAX (905) 828-5473, or e-mail: gdykeman@credit.erin.utoronto.ca.

Women's Centre

The Erindale Women's Centre is a drop-in centre for all women (and men) at Erindale College and surrounding communities. Weekly collective meetings are held to program around various issues affecting women, and to plan special events. Programs running throughout the year include peer counselling and workshops on violence against women. The Centre's mandate is to advocate on issues of sexism, racism, anti-Semitism, classism, homophobia and disability. Office hours are flexible and are posted on the office door. For information, call (905) 569-4605, e-mail: e0fek3b2@credit.erin.utoronto.ca or drop by Rooms 131A/D, North Building.

Student Services on the St. George Campus

Aboriginal Student Services and Programs, Office of

1st Nations House, 3rd Floor
563 Spadina Ave.
(416) 978-8227

Chaplains' Office

44 St. George St.
(416) 978-8100

Community Safety Coordinator

581 Spadina Avenue
(416) 978-1485

Counselling and Learning Skills Service

Koffler Student Services Centre
214 College Street
Mall Level
(416) 978-7970

Family Care Advisor

40 Sussex Avenue
(416) 978-0951
FAX: (416) 971-2289

Hart House

7 Hart House Circle
(416) 978-2452

Housing Service

Koffler Student Services Centre
214 College Street - Room 103
(416) 978-8045

International Student Centre

33 St. George St.
(416) 978-2564

Legal Services

Faculty of Law
84 Queen's Park Crescent
(416) 978-6447

Libraries

The main libraries on St. George Campus are:

Audiovisual Library

9 King's College Circle
(416) 978-6520

Gerstein Science Information Centre (combined Sigmund Samuel and Science and Medicine Libraries)

9 King's College Circle
(416) 978-2280

Robarts Library

130 St. George Street
(416) 978-8450

Ombudsperson, Office of the University

16 Hart House Circle
(416) 978-4874

Race Relations and Anti-Racism Initiatives Office

45 Willcocks Street
(416) 978-1259

Sexual Assault Counsellor/ Educator

Counselling and Learning Skills Service
Koffler Student Services Centre
214 College Street
Mall Level
(416) 978-0174

Sexual Harassment Education, Counselling and Complaint Office

40 Sussex Avenue
3rd Floor
(416) 978-3908

Women, Office of the Status of

Simcoe Hall, 27 King's College Circle
(416) 978-2196

Women's Centre/Food Bank/Peer Counselling

49 St. George Street
(416) 978-8201

Useful Telephone Numbers

Student Services and Organizations

Telephone (905) 828-

Academic Skills Centre	3858
AccessAbility Resource Centre	3847
Association of Graduate Students at Erindale (AGSAE)	569-4378
Athletics and Recreation	5269
Bookstore	5246
Career Centre	5451
Child Care Centre; Child and Family Resource Centre	3846
Conference & Room Bookings	5279
Development, Alumni and Public Affairs	5214
Erindale College Athletics & Recreation Association (ECARA)	5498
Erindale College Student Union (ECSU)	5249
Health Service	5255
Housing & Student Residences, Off-Campus Residences	5286
Library, Circulation Desk	5236
Medium II (Newspaper)	5260
Part-time Students at University of Toronto at Mississauga (PTS@UTM)	5422
Personal Counselling for Students	5399
Registrarial Services	5399
Snow Phone	5399
Scholarships & Financial Aid	5399
Women's Centre	569-4605

Student Telephone Service

(STS) (416) 872-8638

Department Secretaries

Telephone (905) 828-

	Room	
Anthropology	227	3726
Astronomy	4037A	3800
Biology	3030	3999
Canadian Studies	227	5201
Chemistry	4037A	3800
Classics	227	3727
Computer Science	4037	5350
Drama	227	5201
Earth Science	3004	5295
Economics	K207	5257
English	227	5201
Fine Art	227	3725
Forensic Science	227	3726
French	227	3726
Geography	3106A	5465
German	227	3727
History	227	3725
Italian	227	3727
Linguistics	227	5201
Management	K207	3914
Mathematics	4037	3801
Philosophy	227	3727
Physics	4037	5350
Political Science	K207	3921
Psychology	2037B	5414
Psychology PUMP Room	1099	5409
Religious Studies	227	3725
Sociology	2098	5395
Statistics	4037	3801

Emergency Numbers

Life or Death	911
Campus Police - Emergency	(905) 569-4333
Ambulance	911
Credit Valley Hospital	(905) 820-6800
Peel Regional Police	(905) 453-3311
Health Service (Erindale)	(905) 828-5255

St. George Campus

Telephone (416) 978-

Aboriginal Student Services and Program, Office of	8227
Association of Part-time Undergraduate Students (APUS)	3993
Athletics & Recreation, Department of	3436
Bookstore	7900
Career Centre	8000
Family Care Advisor	0951
Fees Department	2142
Hart House	2452
Housing Service	8045
International Student Centre	2564
Legal Services	6447
Library Services	8450
Ombudsperson, Office of the University	4874
Race Relations and Anti-Racism Initiatives Office	1259
SAC	4911
Sexual Harassment Education, Counselling and Complaint Office	3908
Snow Phone	7669
Transcript Office	3384
Women, Office of the Status of	2196

Scarborough Campus (416) 287-7537

Snow Phone (416) 287-7080

Degrees Offered

The Faculty offers the following degrees:

Honours Bachelor of Arts;
Bachelor of Arts;
Honours Bachelor of Science;
Bachelor of Science;
Bachelor of Commerce;

Students may choose to receive either the B.Com., Honours B.A., or Honours B.Sc., or B.A. or B.Sc. degree after completing the appropriate requirements listed below. Whether a student receives a B.A. or a B.Sc. depends on the Program(s) the student completes. In the Program Section each Program lists the degree received (for instance, "ENGLISH (B.A.)", "GEOGRAPHY" (B.Sc.), etc.).

The word "course" as used in the listing of degree requirements means a full course or the equivalent in half courses. The abbreviation FCE refers to full course equivalent. In order to "obtain standing" in a course, a student must receive at least a passing grade (50%) in that course.

Students who obtain a B.A. or B.Sc. degree and who continue their studies will not graduate a second time but will be able to upgrade the 15-course degree to an Honours degree. A B.A. or B.Sc. degree leads only to an Honours degree in the same field, i.e., a B.A. leads only to an Honours B.A. etc., although five courses taken towards a degree in one field may, on petition, be counted towards a degree in a different field (see "Second Degree" Requirements).

NOTE: Students registered as B.A. or B.Sc. degree students at Erindale College prior to September 1992 should consult a counsellor at Registrarial Services concerning their degree and program requirements.

Requesting Graduation

Students must monitor their own progress to degree completion and must tell the university when they wish to graduate by making a **degree request**. Degree requests can be made by using the Student Telephone Service or by completing a Graduation Request Card available from Registrarial Services. This request for graduation should be made early in a student's final academic session. Deadlines are listed in this Calendar under Sessional Dates.

Counselling

- Consult **Registrarial Services** counsellors regarding degree requirements (including acceptable program combinations);
- Consult the **relevant Department** regarding specific program requirements.

Bachelor of Commerce Degree (B.Com.)

To qualify for a Bachelor of Commerce degree, a student must meet the following requirements:

1. COURSE REQUIREMENTS:

- Obtain standing in at least 20.0 full course equivalents, meeting the following criteria:
 - a) No more than 6.0 courses may be 100 level.
 - b) Complete 5.0 full course equivalents from disciplines other than Management (MGT) and Economics (ECO). Courses taken to fulfil #2 and #3 may also be counted towards meeting this requirement. 'EXTRA' courses may not be used to satisfy this requirement.
 - c) Obtain standing in at least 6.0 300/400 level full course equivalents (no more than 1.0 300/400 level transfer credit may be counted).

2. PROGRAM REQUIREMENT:

Complete the requirements of the Specialist Program in Commerce and Finance (see Section 8).

3. DISTRIBUTION REQUIREMENT:

Complete the Distribution requirement which consists of at least 1.0 full course equivalent from each of the following divisions: Humanities, Sciences, Social Sciences (see page 22).

4. GRADE REQUIREMENT:

Achieve a Cumulative GPA of 1.85 or more.

NOTES:

1. Students registered before September 1992 and intending to complete the requirements of the Bachelor of Commerce degree must follow **ALL** degree and program requirements of the 1991-92 (or appropriate earlier) Calendar OR may choose to follow **ALL** degree and program requirements of the 1998-99 Calendar.
2. **Number of MGT and ECO Courses**
No more than 9.0 MGT and 6.0 ECO or 6.0 MGT AND 9.0 ECO courses may be taken for degree credit. (See Commerce and Finance Program, Section 8).
NOTE: STA(250H & 255H/257H) and GGR270Y(G) are counted as ECO courses.
3. **Counselling**
 - Consult Registrarial Services counsellors regarding degree requirements.
 - Consult the Management Department regarding specific program requirements.

Requirements for an Honours B.A. (Hon.B.A.) or Honours B.Sc. (Hon.B.Sc.)

The degree received depends on the Program(s) a student completes. To qualify for an Honours degree, a student must meet the following requirements:

1. **COURSE REQUIREMENTS:**
Obtain standing in at least 20.0 full course equivalents, meeting the following criteria:
 - a) No more than 6.0 courses may be 100 level;
 - b) At least 6.0 courses must be 300/400 level (no more than 1.0 300/400 level transfer credit may be counted);
 - c) No more than 15.0 courses may have the same three-letter designator.
 2. **DISTRIBUTION REQUIREMENT:**
Complete the Distribution requirement which consists of at least 1.0 full course equivalent from each of the following divisions: Humanities, Sciences, Social Sciences (see page 22).
 3. **GRADE REQUIREMENT:**
Achieve a Cumulative GPA of 1.85 or more.
 4. **PROGRAM REQUIREMENTS:**
 - a) **FOR HONS. B.A. DEGREE:**
Minimum requirements:
1 Specialist OR
2 Majors (12.0 distinct courses) OR
3 Minors (12.0 distinct courses) OR
1 Major, 2 Minors (12.0 distinct courses)
 - b) **FOR HONS. B.Sc. DEGREE:**
Minimum requirements:
1 Specialist OR
2 Majors (12.0 distinct courses) OR
3 Minors (12.0 distinct courses) OR
1 Major, 2 Minors (12.0 distinct courses)
- NOTE: If completing 1 Major and 2 Minors or 3 Minors, at least two of the three programs must be in the Sciences.**

NOTE:

- a) The Faculty of Arts and Science limits the number of courses that can be counted for more than one program. When completing a combination of programs a student must complete at least 12 different (distinct) courses which apply to their programs.
- b) A maximum of two Majors or two Specialists or one Major and one Specialist will be permitted.
- c) In addition to b), one Minor will be permitted.
- d) A Specialist may be completed only within the Honours degree.

Requirements for a B.A. or B.Sc. Degree

The degree received depends on the Program(s) a student completes. To qualify for a B.A. or B.Sc., a student must meet the following requirements:

1. **COURSE REQUIREMENTS:**
Obtain standing in at least 15.0 full course equivalents, meeting the following criteria:
 - a) No more than 6.0 courses may be 100 level.
 - b) At least 3.0 courses must be 300/400 level (no more than 1.0 300/400 level transfer credit may be counted).
 - c) No more than 10.0 courses may have the same three-letter designator.
2. **DISTRIBUTION REQUIREMENT:**
Complete the Distribution requirement which consists of at least 1.0 full course equivalent from each of the following divisions: Humanities, Sciences, Social Sciences (see page 22).
3. **GRADE REQUIREMENT:**
Achieve a Cumulative GPA of 1.50 or more.
4. **PROGRAM REQUIREMENTS:**
 - a) **FOR B.A. DEGREE**
Minimum Requirements:
1 B.A. Major OR
2 Minors (at least 1 B.A. Minor)
(8.0 distinct courses)
 - b) **FOR B.Sc. DEGREE**
Minimum Requirements:
1 B.Sc. Major OR
2 B.Sc. Minors (8.0 distinct courses)

NOTE:

- a) The Faculty of Arts and Science limits the number of courses that can be counted for more than one program. When completing a combination of 2 Minors, a student must complete at least 8 different (distinct) courses which apply to the programs.
- b) A maximum of two Majors will be permitted.
- c) In addition to b), one Minor will be permitted.
- d) A Specialist program is not permitted within a 15 credit degree.

To qualify for a degree, students must complete at least 1.0 full course equivalent from each of the following divisions (Humanities, Social Sciences, Sciences)

Humanities

Classics	History
Drama	Italian
English	JFI225Y
ERI100H,112Y,200Y,300Y	Linguistics
Fine Art	Philosophy
French	Religion
German	

Social Sciences

Anthropology*	Political Science
Economics*	Sociology*
Geography*	WDW260Y
JAL253H,355H	WRI305H,310H,390H,
Management	391H

Sciences

ANT203Y,312H,318H,327H, 331H,332Y, 334Y,338H,339H,405Y,415Y,418H,430Y, 434H,438H,439Y
 Astronomy
 Biology
 Chemistry
 Computer Science
 ECO220Y,227Y
 ENV100Y,317H
 Earth Sciences
 GGR215H,217Y,261H,276H,304H, 305H, 307H,309H,310H,315H,316H,319H,321H, 322H,335H,337H,338H,341H,362H,372H, 374H,375H,376H,377H,379H,394H,395H, 406H,407H,408H,417Y(P.I.),423H,442H,463H, 479H,488H
 Forensic Science
 JAE237H
 JBC372H
 JCP321H,322H
 Mathematics
 Physics
 Psychology
 SOC300Y
 Statistics

NOTES:

1. *Some courses offered by the Social Science departments are designated as Science credits for the purpose of the Distribution Requirement. They are listed individually under Sciences.
2. Please consult an Erindale Registrarial Services counsellor if using St. George courses which do not appear in the above lists.
3. Not all courses offered fulfill Distribution Requirements.

Program Enrolment

All degree students entering Erindale must enrol in a Program when they have passed 4.0 full course equivalents. This must be done **only** when they register for their **NEXT** Summer or Winter Session. If admitted with transfer credit for 4.0 courses or more, they must do this when they first register in the Faculty.

To enrol in a program, complete a "Program Enrolment Form", available in Registrarial Services. Submit to Registrarial Services. Enrolment in "Limited Enrolment" programs requires a Departmental signature. See Section 8, Programs, for a full listing of programs offered at Erindale, along with specific enrolment instructions and course requirements.

Students should be aware that completion of the Program Requirement does not ensure that Degree Requirements have been met.

Consult Registrarial Services counsellors regarding Degree Requirements (including acceptable program combinations); consult the relevant Department regarding specific Program Requirements.

Second Degree Requirements

Students beginning a second degree are normally exempted from the first year of the degree requirements by being granted five (5.0) credits, four at the 100 level and one at the 200 level, regardless of the number of previous degrees held. Students who already hold a degree from the Faculty of Arts and Science or from Scarborough College may complete a second degree only of an alternate type (i.e. if a student has a B.A. degree then he/she may not complete a second B.A. degree). Students applying to the Faculty of Arts and Science, University of Toronto with a completed degree from another institution should refer to the Admission Information in Section 2.

NOTE: Students who have a degree with a Major in either Commerce or Economics cannot do a B.Com. as a second degree. This is due to the extensive overlap of courses between the two degrees.

7 General Regulations

Responsibilities of Students

While Departmental counsellors and the Registrarial Services staff are always available to give advice and guidance, it must be clearly understood that it is the *responsibility of the student* to ensure that:

- course selection is correct and complete,
- they have complied with all prerequisite, exclusion and corequisite requirements,
- program, distribution and other degree requirements have been met,
- deadlines and other regulations have been observed.

If there is any doubt, students should seek guidance from Registrarial Services. Misunderstanding, misapprehension, or advice received from another student will not be accepted as a reason for exemption from any regulation, deadline, program or degree requirement.

Personal Information

Personal information provided at the time of admission is verified and brought up to date by Registrarial Services at the time of registration in subsequent sessions. This information is a vital part of the student's official University record and is used to issue statements of results, transcripts, graduation information, diplomas and other official documents. The University is also required by law to collect certain information for the Federal and Provincial Governments; this is reported only in aggregate form and is considered confidential by the University.

Any change in the following must therefore be reported immediately to Registrarial Services:

- Legal name
- Permanent or home address and telephone number
- Sessional address and telephone number
- Social Insurance Number
- Citizenship status in Canada
- Marital Status.

Student Card

The student card is a wallet-sized card bearing the student's photograph, used for identification purposes within the University, such as evidence of registration in the Faculty and as a Library card; and in a particular College, participation in student activities, Athletic Association privileges, and identification at Faculty examinations.

The loss of the student card must be reported promptly to the Registrarial Services, and the card must be surrendered if a student withdraws from the University or transfers to another College or Faculty. There is a fee of \$6.00 for replacement of lost cards.

Photos for student cards are taken on Wednesdays, 12 noon - 7:00 p.m. in Registrarial Services.

Registration

Refers to the process of establishing membership in the College for the purpose of attending courses and following a program of study. Registration requires two separate steps to be completed: enrolling in your courses and paying your fees.

Students enrol in courses by submitting a Registration form listing their course requests or by entering them on the Student Telephone Service. Using the preprinted Fees Invoice, fees are **paid** at a financial institution **before** the last date to register. (See Sessional Dates)

Detailed information about registration procedures is outlined in the *Timetable and Registration Information* booklet issued to students in April.

The last dates for registration in courses and withdrawal from courses are in the "Sessional Dates" section of this Calendar and in the *Timetable and Registration Information* booklet.

NOTE: Dates for refunds of fees **do not correspond** to dates for academic withdrawal from courses.

Any student allowed to register after the end of the registration period will be charged a late registration fee (See Administrative User Fees listed in the *Timetable and Registration Information* booklet).

Students should be aware that permission to register in the Faculty after the end of the registration period may be refused at any time.

Letters Confirming Registration

Students who require written proof of registration must allow at least three full business days for the processing of the request. Requests, accompanied by your student card and payment of \$6.00, must be made at Registrarial Services.

Although the Faculty of Arts and Science is not on a formal year-by-year system, for the purpose of letters of confirmation of registration, the following equivalency chart is used:

No. of Passed Credits	Equivalent Year
0-4.0	Year I
4.5-9.0	Year II
9.5 - 14.0	Year III
14.5+	Year IV

Re-registration

Refers to former students who have not registered in the Faculty for two or more consecutive sessions (Winter or Summer) or to new students who withdraw during their first year, and now wish to resume their studies. They may request re-registration by completing a Request for Re-registration form and paying the administrative service fee. Students who studied elsewhere during their absence from this University and now wish transfer credit should follow the procedure outlined in the section "Courses of Other Universities".

NOTE: If a student re-registers but does not enrol in a course and pay tuition, the re-registration becomes invalid at the end of the session.

Deletion of Courses

Students who are deleting a course or courses must do so by completing a Course Change form or otherwise notifying Registrarial Services in writing, or by using the Student Telephone Service, before the final date to drop courses as specified in the Sessional Dates. (For information regarding deletion of courses after the deadline dates see "Petitions").

Financial Implications of Deletion of Courses

Students who drop a course or courses before the deadline may be entitled to a fees refund, the amount of which is determined by the date the Course Change form or other written notification is received and recorded by Registrarial Services or as recorded by use of the Student Telephone Service. The amount of the fees refund is based on the information outlined in the *Schedule of Fees*. Students should pay strict attention to these dates to ensure that they receive the maximum refund.

PLEASE NOTE: EVEN IF YOU DO NOT ATTEND OR STOP ATTENDING COURSES, YOU WILL BE REQUIRED TO PAY ALL FEES OWING. EVEN A SUCCESSFUL PETITION FOR LATE WITHDRAWAL WITHOUT ACADEMIC PENALTY WILL NOT ELIMINATE THE OBLIGATION TO PAY FULL FEES.

The time in which you may receive any refund is very brief — in the Winter Session it is only 4 weeks for A,F,B,S courses and 6 weeks for H and Y courses. There are no exceptions to this refund deadline. This means that you must be very careful of the financial implications of the date when you drop a course. You control this action; the University does not.

Ineligible Enrolment in Courses

Students who enrol in courses for which they are ineligible (e.g. balloted courses; courses with prerequisites, corequisites and/or exclusions) may have such courses deleted by Registrarial Services at the request of the Department.

Students are Responsible for Monitoring their Records

Students who are still registered in a course after the final date to withdraw will receive a grade for that course, even if they have never attended, have stopped attending or did not write the final examination. They are responsible for applicable tuition fees regardless of any subsequent changes.

Student Telephone Service (STS)

Students have access to the University of Toronto Student Telephone Service. It allows students to use a touch-tone telephone to perform many procedures associated with the enrolment process. The system can be used to add and drop courses, change sections, list current course enrolments; obtain final grades and request graduation. All students pay a sessional fee which is refundable if the Service is not used during the Session. A Student Telephone Service Rebate form must be completed and submitted to Registrarial Services before the end of the final examination period of the applicable Session. Refunds will be mailed at the end of the applicable Session by the University of Toronto Fees Office. Refer to the *Timetable and Registration Information* booklet for further details.

STS Phone: (416) 872-8638.

Withdrawal from a Session

Students who find it necessary to stop attending all of their courses and wish to withdraw from the University for the Session must notify Registrarial Services, in writing or by the Student Telephone Service, of their intent before the last date to drop courses. Merely ceasing to attend classes will result in a failing grade for each course. Before a refund of fees will be issued to students withdrawing from a Session, they must:

- pay any outstanding fees,
- return any books to the Library and pay any outstanding fines,
- vacate any laboratory or athletic lockers and return any equipment in their possession.

Transfer to a St. George College

Students who wish to transfer to a College on the St. George campus for full-time studies must submit their written request to Registrarial Services before June 1. "Request for College Transfer" forms are available from Registrarial Services. They must have completed a minimum of 4.0 full course equivalents and have a CGPA of at least 2.50. Students with less than 4.0 credits must also satisfy the initial entry requirements of the St. George Campus. Refer to the Information Sheet available in April from Registrarial Services for further details. For information on transferring to St. George for part-time studies, contact a counsellor in Registrarial Services.

Courses

The word "course" is used in two senses. In reference to a single course (such as "standing in a course" etc.) "course" refers equally to a full course or a half course.

In reference to a given number of courses (such as the requirement of obtaining standing in at least twenty courses for an Honours degree) "courses" refers to *full* courses or the equivalent number in *full* and *half* courses. The abbreviation "FCE" refers to "full course equivalent".

To "pass a course" or "obtain standing in a course" normally means to obtain a mark of 50% or more in that course ("Credit" in "Credit/No Credit" courses).

Choosing Courses

1. Students may plan their own program, selecting from among all courses offered, subject to the following rules:
 - a) The degree and program requirements, distribution requirements and other regulations set out in the Calendar and its supplements must be satisfied.
 - b) All prerequisite, corequisite and exclusion requirements must be met.
 - c) No more than 6.0 100 level courses may be taken for degree credit. Additional 100 level courses completed will be designated as "extra" and will not count for degree credit or be included in the Grade Point Average.
2. Students may not repeat any course which they have already passed. The only exception occurs when students require a 100 level course with a specific grade higher than "D" for entry into a limited enrolment program. Students may repeat such a course *once* as an "extra" course, which will have no effect on the student's status or Grade Point Average. There are no supplemental examinations or provisions to "upgrade" a mark.

Prerequisites, Corequisites, Exclusions, Extra Courses, Supplemental Courses

Exclusion: Students may not enrol for degree credit in a course that is listed as an exclusion of a course that they are taking, or in which they have already obtained a pass standing. Students may be required to withdraw from the course during the Session of enrolment, or may be refused degree credit in the excluded course at any time during their academic career.

Prerequisite: A course (or other qualification) required as preparation for a course. If students consider that they have equivalent preparation, they may ask the Department concerned to waive the stated prerequisite. Students who enrol in a course for which they lack the prerequisite may be removed from the course at any time at the request of the Department.

Corequisite: A requirement to be undertaken concurrently with another course. The corequisite will be waived if a student has previously obtained standing in it or if the Department consents.

A student who withdraws from a course must also withdraw from any course for which the dropped course is a corequisite unless the Department giving the latter course agrees to waive the corequisite.

Recommended Preparation: Background material or courses which may enhance a student's understanding of a course.

Extra Courses appear on official transcripts with the notation "XTR". Extra courses do not count towards the total number of credits required for a degree and are not included in the GPA, but may be used to satisfy distribution, program or prerequisite requirements.

Supplemental Courses are courses taken after the maximum number of courses allowed, for degree credit, with the same three-letter designator have been passed. These "supplemental" courses will not count for degree credit but will count in the Grade Point Average, program and distribution requirements.

Course Loads

Students may proceed towards the degree at a rate of their own choosing, and should attempt to balance their course load between the two terms of any session.

The recommended course load for full-time students in the Winter Session is 5.0 courses. The maximum course load in the Winter Session is 6.0 courses.

A full-time student who is on Academic Probation may take no more than 5.0 courses in the Winter Session.

A part-time course load is defined by enrolment in fewer than 4.0 courses in a Winter Session.

The recommended maximum course load during the Summer Session is 2.0 courses.

To calculate Session and Term course loads, students should consult this Calendar together with the *Timetable and Registration Information* booklet. Calendar course descriptions bear the suffix "Y" (a full course), or "H" (a half course). The course suffixes, "A,B,F,S", appear only in the Timetable; for a full explanation, see Key to Course Descriptions, Section 9. The following table may be helpful in calculating course loads:

Suffix	Load Per Session	Load per Term
Y	1.0	1.0
H	0.5	0.5
A, B	1.0	2.0
F, S	0.5	1.0

Permission to take Courses on the St. George Campus

A student may take up to 2.0 courses on the St. George Campus, provided that:

- 5.0 full courses have been completed successfully at Erindale,
- neither the course nor an equivalent course is available at Erindale,
- the same course at Erindale is in timetable conflict with a course required for a Specialist or Major program and there is no suitable equivalent course available at Erindale.

In each subsequent Winter Session, until 14.0 credits have been completed, students may take no more than 2.0 courses on the St. George Campus. **Students will be removed from courses which exceed these limits if permission for a St. George Campus course overload has not been requested and granted prior to registration.** Overload request forms are available from Registrarial Services. Once a student has completed 14.0 credits, this limit is removed.

NOTE: Students in the Commerce programs must obtain Erindale departmental permission for **ALL** MGT courses taken on the St. George campus.

Courses of Other Divisions

Certain courses offered in other Faculties and Schools of the University may be appropriate for degree credit in the Faculty of Arts and Science. After consulting an academic advisor, students should petition through Registrarial Services well before the beginning of the course(s) concerned. Acceptance of petitions to take graduate courses is further subject to the requirements of the School of Graduate Studies. Special Students at Erindale College may enrol only in courses given by the Faculty of Arts and Science or Scarborough College.

Courses of Other Universities Letters of Permission

A Letter of Permission is prior confirmation that an intended course at another university is acceptable for transfer credit. Students may take a maximum of 5.0 courses elsewhere for transfer credit but only 1.0 transfer credit may be used to satisfy the degree requirement of 300/400 level courses (See Section 6 for Degree Requirements). To be eligible for a Letter of Permission, students must have a cumulative Grade Point Average of 1.50 or more.

Students admitted with transfer credit should consult an academic counsellor in Registrarial Services about the number of courses they may take on a Letter of Permission.

Refer to the regulations on the Letter of Permission request form for further details.

Transfer Credits

Students who study elsewhere without a prior Letter of Permission may request transfer credit after completing the course(s). Credit will be granted if:

- the course is acceptable for credit in this Faculty,
- a grade of at least C- (60) is attained,
- the student had a cumulative grade point average of 1.50 or more in this Faculty at the time the course(s) were taken,
- the courses will not exceed the maximum allowable limit of transfer credits.

Requests for Letters of Permission and Transfer Credit are available from Registrarial Services. There is an administrative non-refundable service charge for either type of request.

Transcripts

The transcript of a student's record reports the standing in all courses attempted, along with course size and course average, information about the student's academic status including record of suspension and refusal of further registration, and completion of degree and program requirements.

Course results are added to each student's record at the end of the session. Transcripts issued during the second term will include "A" and "F" courses completed in the first term.

Individual courses from which a student withdraws within the normal time limit are not shown. However, when students have been permitted by petition to withdraw from a course after the deadline date, the course will appear on the transcript with a "WDR" notation. The date of withdrawal from a Session (i.e. withdrawal from the last or only course in which a student was enrolled) is recorded on the transcript.

Term Work

Copies of the transcript will be issued at the student's request, subject to reasonable notice. Requests should be submitted, in person or in writing, to the Faculty of Arts and Science, Sidney Smith Hall, 100 St. George St., Toronto, M5S 3G3. *Request for Transcript* forms are available at Registrarial Services, Rm. 2122, Erindale College. There is no charge for transcripts issued for use within the University. A fee of \$6.00 will be charged for each transcript issued to all other destinations. Payment **MUST** accompany such requests. Transcripts issued directly to students bear the official seal of the Faculty but are stamped "Issued to Student". The Office of the Faculty Registrar cannot be responsible for transcripts lost or delayed in the mail. **Transcripts are not issued for students who have outstanding financial obligations with the University.**

In accordance with the University's policy on access to student records, the student's signature is required for the release of the record.

Faculty Term Work Regulations

The following regulations summarize the Faculty's implementation of the University's Grading Practices Policy, which is reprinted in full in Section 10 of this Calendar.

Term Work

Both essays (or equivalent work) and examinations (including term tests) are normally required for standing in courses. In courses where only one form of evaluation is used, a single piece of work should not normally count for all of the final mark. Self-evaluation by individual students or groups of students is not permissible unless the specific consent of the Committee on Academic Standards is received.

As early as possible in each course and no later than the last date to enrol in courses, the instructor must announce in a regularly scheduled class the methods by which student performance will be evaluated, and their relative weight in the final mark, including any discretionary factor and the due dates. These methods must be in accord with applicable University and Faculty policies.

Once the weight of each component of the course work is given, it may not be changed unless approved by a majority of the students present and voting at a regularly scheduled meeting of the class.

After the last date to withdraw from the course without academic penalty, no change in weighting may take place unless there is unanimous consent of all students present and voting, and notice must be given at the regularly scheduled class meeting previous to that at which the issue is to be raised.

Instructors MUST assign, grade and return at least one significant assignment (worth at least 5% of course mark) as early as possible, and at the latest BEFORE the final date to withdraw without academic penalty. Please note that this does not apply to the financial refund dates.

All term work must be submitted *on or before the last day of classes* in the course concerned, unless an earlier date is specified by the instructor. Students who for reasons beyond their control wish to seek an extension of this deadline must obtain approval from their instructor for an extension of the deadline. This extension may be for no longer than the end of the Final Examination period. If additional time beyond this period is required, students must petition through Registrarial Services for a further extension of the deadline. (Refer to Petition Procedures).

Assignments are the property of the student and must be returned. Students must make any inquiries about the mark on a graded piece of work within one month of the return date of the work. Unclaimed term work must be kept by the instructor for one year after the end of the course.

Re-marking Pieces of Term Work

A student who believes that his or her written term work has been unfairly marked may ask the person who marked the work for re-evaluation. Students have up to one month from the date of return of an item of term work to query the marking. If the student is not satisfied with this re-evaluation, he or she may appeal to the instructor in charge of the course if the work was not marked by the instructor (e.g., was marked by a TA). Such re-marking may involve the entire piece of work, and may raise or lower the mark.

Any appeal of the mark beyond the instructor in the course may only be made for term work worth at least **20% of the course mark**. Such appeals must be made in writing to the Department or Program within one month after the work was returned, explaining in detail why the student believes that the mark is inappropriate. The appeal must summarize all previous communications between the student and previous markers of the work. The student must submit the original marked piece of work.

If the Department believes that re-marking is justified, the Department shall select an independent reader. The student must agree in writing to be bound by the results of the re-reading process, or abandon the appeal.

Where possible, the independent reader should be given a clean, anonymous copy of the work. Without knowing the original assigned mark, the independent reader shall determine a mark for the work. The marking of the work should be considered within the context of the course of instruction for which it was submitted. If the new mark differs substantially from the original mark, the Department shall determine a final mark, taking into account both available marks.

Term Tests

No term test, or combination of term tests in an individual course, held in the last two weeks of classes at the end of term may have a total weight greater than 25% of the final mark.

All term tests must be held before the last day of classes, and no term test may be scheduled during the December Examination Period (with the exception of term tests for courses with more than one lecture section or with special permission of the divisional Dean), the "Reading Week" in February, or the study period preceding the Final Examination Period in April.

Students who miss a term test will be assigned a mark of zero for that test unless they satisfy the following conditions:

1. Students who miss a term test for reasons entirely beyond their control may, within one week of the missed test, submit to the instructor or Department a written request for special consideration explaining the reason for missing the test, and attaching appropriate documentation, such as a medical certificate.
2. If a written request with documentation cannot be submitted within one week, the Department may consider a request to extend the time limit.
3. A student whose explanation is accepted by the Department will be entitled to one of the following considerations:
 - a) In courses where there is no other term work as part of the evaluation scheme, a makeup test must be given.
 - b) In other courses, the Department may either give a makeup test OR increase the weighting of other graded work by the amount of the missed test. In no case may the weighting of the final examination in a 100 level course be increased beyond 2/3 of the total course mark.
4. If the student is granted permission to take a makeup test and misses it, then he or she is assigned a mark of zero for the test unless the Department is satisfied that missing the makeup test was unavoidable. No student is automatically entitled to a second makeup test.
5. A student who misses a term test cannot subsequently petition for late withdrawal from the course without academic penalty on the grounds that he or she has had no term work returned before the drop date.

NOTE: Marks in term work and term tests are not petitionable through Registrarial Services. These are dealt with by the relevant instructor and Department.

Statement of Results

Statements of Results are mailed by the Office of the Faculty Registrar, Faculty of Arts and Science (St. George Campus), to students at their home address at the end of the Session. Students should expect to receive their Statements within six weeks of the end of the examination period.

NOTE: Students who are enrolled only in first term courses receive their Statement of Results at the end of the Session (see also "Transcripts").

Final marks are available on the Student Telephone Service within a month after the end of the examination period.

Registrarial staff **cannot** give final marks to students by telephone.

Recognition of Exceptional Academic Achievement

Dean's List

This designation is given to students in the Faculty of Arts and Science having a Cumulative Grade Point Average of 3.50 or higher, at the end of each session in which the fifth, tenth, fifteenth and twentieth course has been passed.

A certificate signed by the Dean of the Faculty will be sent to each student. Students who feel they satisfy the above criteria but do not receive the certificate at the end of the appropriate session, should write to the Faculty Registrar, Faculty of Arts and Science, Sidney Smith Hall, 100 St. George St., Toronto, Ont., M5S 3G3.

Dean's Honour List

The criteria are the same as for the Dean's List. A certificate signed by the Principal of Erindale College will be sent to eligible students.

Distinction

Students who graduate with a Cumulative Grade Point Average of 3.20 to 3.49 are described as graduates "With Distinction".

High Distinction

Students who graduate with a Cumulative Grade Point Average of 3.50 or above are described as graduates "With High Distinction".

Grading Scheme

Grading Scheme

Students are assigned a grade in each course as follows:

Percentage	Grade	Value	Grade Definitions	
90 - 100	A+	4.3	Excellent	Strong evidence of original thinking; good organization, capacity to analyze and synthesize; superior grasp of subject matter with sound critical evaluations; evidence of extensive knowledge base.
85 - 89	A	4.0		
80 - 84	A-	3.7		
77 - 79	B+	3.3	Good	Evidence of grasp of subject matter, some evidence of critical capacity and analytic ability; reasonable understanding of relevant issues; evidence of familiarity with the literature.
73 - 76	B	3.0		
70 - 72	B-	2.7		
67 - 69	C+	2.3	Adequate	Student who is profiting from his/her university experience; understanding of the subject matter; ability to develop solutions to simple problems in the material.
63 - 66	C	2.0		
60 - 62	C-	1.7		
57 - 59	D+	1.3	Marginal	Some evidence of familiarity with subject matter and some evidence that critical and analytic skills have been developed.
53 - 56	D	1.0		
50 - 52	D-	0.7		
*Credit	CR	No Value		
35 - 49	E	0.3	Inadequate	Evidence of familiarity with only some subject matter; presence of some critical and analytic skills.
0 - 34	F	0.0	Wholly Inadequate	Little evidence of even superficial understanding of subject matter; weakness in critical and analytic skills; with limited or irrelevant use of literature.
*No Credit	NCR	0.0		

Grades of "E" and "F" are both *failures*. There are no supplemental examination privileges in the Faculty.

*As used in a Credit/No Credit evaluation.

Other notations which do not have grade point values are:

AEG	AEGRATAT STANDING - credit is assigned on the basis of term work and medical evidence. Authorized only by the Committee on Standing by Petition.
SDF	STANDING DEFERRED - completion of course delayed by Petition. Authorized only by the Committee on Standing.
WDR	LATE WITHDRAWAL - without academic penalty** Authorized only by the Committee on Standing by Petition.
XTR	EXTRA COURSE - not for degree credit.
GWR	GRADE WITHHELD PENDING REVIEW - applied to students charged with an unresolved academic offence.
NGA	NO GRADE AVAILABLE

**The petition in this case is not for permission to withdraw, but is for removal of the failing grade from the student's record. Students remain responsible for applicable tuition fees.

Grade Point Average

The Grade Point Average (GPA) is the weighted sum of the grade points earned, divided by the number of courses in which grade points were earned. "No Credit" in a Credit/No Credit course will be included. A half-course will carry half the weight of a full course. Courses noted "AEG" or "PASS" or "GWR" or "SDF" or "WDR" or "NGA" or "Credit" are not included in the average, nor are transfer credits, courses taken on a Letter of Permission, or courses designated as "extra".

Each Session you will receive a GPA (calculated to 2 decimal places) which is the average of all your marks in the Session. To calculate: use the grade point values as listed on this page for each half course. Double it for each full course, and divide the result by the equivalent number of half courses. So if you had 2.5 full course equivalents with a "B" in a full course, C+ in a half course and A- in a full course:

(example on pg. 30)

Academic Status

Full Course	B	=	6.00
Half Course	C+	=	2.30
Full Course	A-	=	7.40
$\frac{15.70}{3} + 5 = 3.14$			

All courses, including failures, must be calculated this way to produce a cumulative average of your complete record. **A failed course remains on your record and in your GPA even if you retake the course and pass it later.**

HELPFUL HINT

The minimum Cumulative Grade Point Average (CGPA) required to remain in good standing is 1.50. Note that this is an **average**, not an exact percentage. Every grade that you receive **which is less than C- (1.70)** will act to lower your average to an unacceptable level. The CGPA is a weighted average so that you will need to achieve sufficient grades of C- (1.70) or better to offset grades of less than C- in order to return to or remain in good standing. See the Grading Scheme chart.

Every course in which you remain registered after the LAST DATE TO WITHDRAW WITHOUT ACADEMIC PENALTY will appear on your grade statement and be a permanent part of your transcript.

There are two types of Grade Point Average:

- a) The Sessional GPA is based on the courses taken in a single Session (Summer or Winter).
- b) The Cumulative GPA takes into account all courses (other than extra courses) taken in the Faculty.

Both the Sessional and Cumulative GPA are used at the end of each Session (Summer or Winter) in assessing academic status and in determining the rate of progress toward the degree.

The Sessional GPA will be identical to the Cumulative GPA for purposes of assessing a student's academic status in the first Session.

The Cumulative GPA of Special students who have completed a degree in the Faculty includes all courses taken both as a Degree student and as a Special student.

Academic Status

The following Regulations apply to both Degree and Special students who have attempted at least 4.0 courses in the Faculty.

1. Students who are neither On Probation, Suspended nor Refused Further Registration are described as **In Good Standing**.

2. Students shall be **on academic probation** who:
 - a) have a Cumulative GPA of less than 1.50 or
 - b) return from suspension.
3. Students who, at the end of any Session (Winter or Summer) during which they are **on probation**:
 - a) have a Cumulative GPA of 1.50 or more shall be in good standing,
 - b) have a Cumulative GPA of less than 1.50 but a Sessional GPA of 1.70 or more shall continue on probation,
 - c) have a Cumulative GPA of less than 1.50 and a Sessional GPA of less than 1.70 shall be **suspended for one calendar year** unless they have been suspended previously, in which case they shall be **suspended for three years**.
4. Students who have been suspended for three years and are again liable for suspension shall be **refused further registration** in the Faculty of Arts and Science, University of Toronto.

NOTE:

1. There are two sessions (Summer and Winter) in each calendar year and status is assessed following each of them.
2. *Courses attempted* are those in which a student was enrolled on the last date for withdrawal, unless the academic penalty has been removed by petition.
3. CGPA and SGPA will be calculated for students who have courses with SDF (Standing Deferred), GWR, or NGA and Academic Status will be assessed excluding these courses.
4. SDF and CGPA < 1.50: Students who finish the Session with a Cumulative Grade Point Average of less than 1.50 and who have been granted deferred standing or permission to re-write an examination in a course, will not be permitted to enrol in further courses until they have resolved the course with deferred standing and a final status for the Session has been determined.

Grades Review Procedure

The Committee on Academic Standards administers the Grading Regulations and reviews course grades submitted by Departments. The Faculty, through this Committee, is responsible for assigning the official course grades, which are communicated to the students by the Faculty Registrar.

Each Chair appoints a Departmental review committee to review grades submitted by instructors. The committee may ask for clarification of any anomalous results or distributions, or disparity between sections of the same course. Both the Departmental review committee, through the Chair, and the Faculty review committee, through the Dean, have the right, in consultation with the instructor of the course, to adjust marks where there is an obvious and unexplained discrepancy between the marks submitted and the perceived standards of the Faculty. Final marks are official, and may be communicated to the student only after the review procedure has taken place.

Grades, as an expression of the instructor's best judgment of each student's overall performance, will not be determined by any system of quotas.

Departmental Appeals

Issues arising within a course that concern the pedagogical relationship of the instructor and the student, such as essays, term work, term tests, grading practices, or conduct of instructors, fall within the authority of the Department. Students are entitled to seek resolution of these issues, either orally or in writing, through the following successive stages: the course instructor; the Discipline Representative/Associate Chair; the Dean of the Division (in consultation with the Chair of the Department); the Dean of the Faculty. Refer also to Faculty Term Work Regulations for further information.

Checking of Marks

Erindale Courses

All requests for re-reading of examinations, checking of marks and photocopies of examinations must be filed within six months of the end of the final examination period. After that date, the examinations are destroyed.

Re-Reading of Examination

- a) Obtain a photocopy of the examination from the Erindale Registrar Services. These are available after the release of final marks. There is a fee of \$13.00 for each examination.

- b) Complete a Request for Re-marking of Final Examination form.
- c) In completing the request, demonstrate that your answer is substantially correct, using evidence other than your own opinion, such as: lecture notes, textbooks, similar questions in tests, etc.
- d) If the Registrar is satisfied that you have made a case for re-marking, your form will be attached to the original examination and sent to the Department. If you have not made a valid case, no further action will be taken unless you request that the matter be referred to the Committee on Standing. They will rule only on whether or not you have made a satisfactory case for re-reading.

Clerical Check of Marks

- a) Complete a Request for Clerical Check of Marks form and submit it with the fee of \$13.00, unless this fee was already paid for a photocopy of the examination for the same course.
- b) Demonstrate by your calculation and/or explanation where you think the error has been made.
- c) If the Registrar is satisfied that you have a valid case, the form will be sent to the Department with any relevant documents. They will check that all term work has been accounted for and that the marks have been added correctly. **THE DEPARTMENT WILL NOT RE-READ THE FINAL EXAMINATION PAPER, NOR RE-MARK TERM WORK.**

If your mark is changed as a result of either of these requests, the \$13.00 fee will be refunded.

St. George Courses

All requests for re-reading of examinations, checking of marks and photocopies of examinations must be filed within 6 months of the final examination period. After that date, the examinations are destroyed.

Re-Reading of Examination

- a) Obtain a copy of the examination from the **Office of the Faculty Registrar**, Sidney Smith Hall, 100 St. George St., Room 1006. These are available after the release of final marks. There is a non-refundable fee of \$13.00 for each examination.
- b) Complete a Request for Re-read of Final Examination form, available from the Erindale Registrar Services or the Office of the Faculty Registrar.

Petitions

- (c) Return the completed form **directly** to the Office of the Faculty Registrar with an additional fee of \$35.00 for the re-read which is refundable if the mark changes.
- (d) In completing the request, demonstrate that your answer is substantially correct, using evidence other than your own opinion, such as: lecture notes, textbooks, similar questions in tests, etc. If your request is granted, the original examination will be forwarded to the Department. Students should note that when a course is failed, the examination must be re-read before the marks are reported.

Clerical Checks of Marks

- (a) Obtain a copy of the examination (see part "a", Re-Reading Examination).
- (b) Complete a Request for Recheck of Course Mark form, available from the Erindale Registrarial Services or the Office of the Faculty Registrar.
- (c) Return the completed form **directly** to the Office of the Faculty Registrar with an additional fee of \$13.00 which is refundable if the mark changes. Demonstrate by your calculation and/or explanation where you think the error has been made. The form will be sent to the Department with any relevant documents.
THE DEPARTMENT WILL NOT RE-READ THE FINAL EXAMINATION PAPER, NOR RE-MARK TERM WORK.

For both Erindale and St. George courses the following are the possible results of your requests:

- the mark may be changed upward,
- there will be no change in the mark,
- if another error is detected during the clerical check or re-reading, the mark may be lowered.

What is a Petition?

A petition is a written request for waiver of a particular regulation. Petitions are submitted in the form of a letter to the Registrar of the College or by completing a petition form available at Registrarial Services and are considered in confidence by or on behalf of the Committee on Standing. This committee, which meets monthly, is charged with interpreting and administering the rules of the Faculty and has the authority to grant exemptions to the regulations and to attach conditions to their decisions. Petitions should be legible and completely documented. Incomplete or illegible petitions will be returned to the student.

The onus is on the petitioner to demonstrate the validity of the request(s) and to provide any appropriate documentation. The Committee may refuse any petition by deciding that the grounds advanced do not support the request made.

Students who feel they have genuine difficulties complying with a particular regulation(s) should consult a counsellor in Registrarial Services as soon as they know a problem exists.

Deadlines for Petition Submission

Petitions requesting late withdrawal from courses must be filed by December 31st for the previous Summer and Winter Sessions only. No changes can be made to the academic record after a degree is conferred.

Petitions concerning extensions of time must be filed by the end of the examination period.

Petitions for deferred examinations must be filed by:

May 15 for April/May 1998 exams.
July 3 for June 1998 exams.
August 21 for August 1998 exams.
January 8, 1999 for December 1998 exams.

Appeals

Appeals of the Committee on Standing decisions must be made to the Academic Appeals Board within 90 days.

Appeals of the Academic Appeals Board decisions must be made to the Academic Appeals Board of Governing Council within 90 days.

Petitions to Defer Final Examinations

Petitions must be supported by documentation. Late petitions will be rejected.

- It is the responsibility of the student to provide supporting documentation, medical or other. It is the practice of some doctors to charge a fee for writing medical notes. Any cost incurred by the student in obtaining a doctor's note is the responsibility of the student.
- Medical Certificates must state clearly the duration of the illness and show that the doctor was consulted at the time of the illness.
- Students who are too ill to come to Registrarial Services on the day of the examination should call (905) 828-5399 (and press 0) to report the illness and come in as soon as possible to file the petition.
- Students who become ill during the examination should report to the Health Service or to Registrarial Services immediately.
- If the petition is not based on medical grounds, other supporting documentation should be attached.

Examinations

The Committee will not consider requests to defer final examinations based on travel or personal plans.

Successful petitions will not excuse you from any of the work of the course, but may allow you to write your examination at a later date and/or an extension of time to complete term work.

Students who miss a deferred examination will receive a grade of "0" for the final examination in the calculation of the final grade and will not be permitted a further deferral unless a petition is granted. In this case, the "SDF" notation will be replaced by the original grade.

SDF AND CGPA < 1.50: Students who finish the Session with a Cumulative Grade Point Average of less than 1.50 and who have been granted deferred standing or permission to re-write an examination in a course, will not be permitted to enrol in further courses until they have resolved the course with deferred standing and a final status for the Session has been determined.

Students who must write a deferred examination in a course which serves as a prerequisite for subsequent courses may enrol in those courses at the discretion of the Department, and provided that the term mark in the prerequisite (deferred) course is at least 60%. Failure to pass the prerequisite course or to meet other Departmental grade standards may result in cancellation of enrolment in the subsequent courses.

Deferred Examinations for St. George Campus Courses

Final Examination	Deferred Examination
April/May	June examination period, if course is offered in Summer Session Term I; August examination period for all others
June	August examination period, if course offered in Summer Session Term II; December examination period, if course offered in Winter (Fall Term); August examination period for all others
August	December examination period

December

April/May examination period, if course offered in Winter (Spring Term); Reading Week for all others

Students will be asked to confirm their intent to write a deferred examination and will be instructed to pay a fee of \$70.00 for each deferred examination prior to the examination period. Those who do not respond will lose the privilege of a deferred examination. The Office of the Faculty Registrar will inform the students of the time and location of the deferred examination.

Faculty Final Examinations

A Faculty final examination common to all sections of the course and counting for between one-third and two-thirds of the final mark must be held in each 100 level course, unless exemption has been granted by the Committee on Academic Standards. In 200-, 300- and 400 level courses, the Departments will decide whether or not an examination is appropriate, and report to the Committee.

Final examinations are held at the end of both terms in each session. Students who make plans which may interfere with writing examinations do so at their own risk. No special arrangements will be made in the event of conflicts nor will deferred examinations be allowed. Information regarding dates and times of examinations will not be given by telephone. The examination timetable is posted well in advance of the examination period. Copies of the examination timetable are available from Registrarial Services. Examination information is also available on our Web site at <http://www.erin.utoronto.ca>

Students taking courses during the day may be required to write evening examinations, and students taking evening courses may be required to write examinations during the day.

The relative value of each part of a written examination must be indicated on the question paper.

The ratio of term marks to examination mark will be the same for all sections of multi-section courses that have final examinations.

Rules for the Conduct of Examinations

1. No person will be allowed in an examination room during an examination except the candidates concerned and those supervising the examination.
2. Candidates must appear at the examination room at least twenty minutes before the commencement of the examination.

3. Candidates shall bring their signed student cards and place them in a conspicuous place on their desks. Candidates registered in the Faculty of Arts and Science must have a student registration card bearing their photograph.
4. Bags and books are to be deposited in areas designated by the Chief Presiding Officer and are not to be taken to the examination desk or table. Students may place their purses on the floor under their chairs.
5. The Chief Presiding Officer has authority to assign seats.
6. Candidates shall not communicate with one another in any manner whatsoever during the examination.
7. No materials shall be brought into the room or used at an examination except those authorized by the Chief Presiding Officer or Examiner.
8. Candidates who bring any unauthorized material into an examination room or who assist, or obtain assistance from other candidates or from any unauthorized source, are liable to penalties under the Code of Behaviour, including the loss of academic credit and expulsion.
9. In general, candidates will not be permitted to enter an examination room later than fifteen minutes after the commencement of the examination, (30 minutes for an evening examination). These candidates should report directly to Registrarial Services. Candidates must not leave except under supervision until at least half an hour after the examination has commenced.
10. Candidates shall remain seated at their desks during the final ten minutes of each examination.
11. At the conclusion of an examination, all writing shall cease, and the Chief Presiding Officer may refuse to accept the papers of candidates who fail to observe this requirement.
12. Examination books and other material issued for the examination shall not be removed from the examination room except by authority of the Chief Presiding Officer.
13. Smoking in the examination room is not permitted.

Outside Centre Fee

Students requesting permission to write an examination outside the normal examination arrangements must submit a petition making their request at least three weeks prior to the beginning of the examination period.

Students granted permission to write an examination at a centre outside Toronto must submit with their application, a fee of \$65.00 for the first exam (\$30 of which is non-refundable) and \$35.00 for each additional exam written during the same time period and location. This administration fee covers postage and coordination of the examination materials. Such permission is granted only in extreme circumstances.

Balloted Courses

In departments where the demand for enrolment in courses exceeds the available space, students may be required to follow a balloting procedure. The steps usually involve:

- (1) In March, students can obtain information as to which Departments intend to ballot their September courses;
- (2) In April, Calendars and Timetables are available for pick-up from Registrarial Services.
- (3) In April/May, students ballot according to relevant Department instructions;
- (4) In June, the Departments will respond to students' ballot requests;
- (5) In July, students should enrol in courses for which they received a successful ballot result;
- (6) In August, some Departments may have a second round of balloting;
- (7) In September, at the first day of classes, previously balloted courses (with the exception of some 400 level courses) will now be available on a first-come-first-served basis by enrolling using the Student Telephone System (STS) or in-person with Registrarial Services.

NOTE: Departments may review class lists and will delete students from courses where they lack the required prerequisites and corequisites or do not have a successful ballot.

Students should contact the relevant academic Department to determine the method for balloting (i.e.: manual form or computer entry), the criteria to be used in assessing the ballot requests (i.e.: GPA, program enrolment, non-academic portfolios, etc.), and any important dates.

IMPORTANT NOTICE

All new programs and changes to existing programs are subject to approval by Governing Council of the University of Toronto. Governing Council had not yet reviewed the programs at the time of the printing of this Calendar. Please consult the relevant Department for confirmation of its programs.

Program

Definition: a program is a sequence of courses in one or more disciplines that are grouped together to form a cohesive area of study.

Program Enrolment

All degree students **must** enrol in a program when they have passed 4.0 full course equivalents. This must be done **only** when they register for their **NEXT** Summer or Winter Session. If admitted with transfer credit for 4.0 courses or more, they must do this when they first register in the Faculty. Program Enrolment forms are available from Registrarial Services. Students admitted as "Special Students" may not enrol in a program.

Entry to programs is based on successful completion of 4.0 full course equivalents including prerequisite courses. Some programs also require specific standing in individual courses and/or a minimum grade point average. See individual program outlines in Section 8 for detailed information.

Completion of a Program is only one part of the Degree Requirements. Variations made in Program details for individual students do not in any way affect completion of the rest of the Degree Requirements. Students should be aware that completion of Program Requirements does not ensure that Degree Requirements have been met. Students are required to complete 6.0 full course equivalents at the 300/400 level for an Honours B.A./B.Sc. Degree or Bachelor of Commerce Degree or 3.0 full course equivalents at the 300/400 level for a B.A./B.Sc. Degree, including courses required for a Program. If the Program requires fewer courses at this level, other 300/400 level courses may be counted to fulfill this Degree Requirement. See Section 6 for complete Degree Requirements.

Types of Programs Available:

Specialist Programs—consisting of 9.0 to 16.0* courses (out of the total of 20.0 courses required for an Hon. B.A. or Hon. B.Sc.), including at least 4.0 300/400 level courses, 1.0 of which must be at the 400 level. Note: a Specialist program is allowed **only** within the Honours (B.A. or B.Sc.) degree or B. Com. degree.

Major Programs—consisting of 6.0 to 8.0* courses including at least 2.0 300/400 level courses.

Minor Programs—consisting of 4.0* courses including at least 1.0 300/400 level course (some Science Minors may have a Mathematics Minor as a corequisite).

*Courses may have prerequisites not listed in the program but which must also be taken.

NOTES:

1. In the biological and science programs there may be occasions when anatomical, biochemical, physiological or pharmacological observations are made by students on themselves or on fellow students. These include some common diagnostic or immunization procedures. Unless a valid reason exists, students are expected to participate in such exercises. If any investigative work does not form part of the Program, participation is voluntary.
2. **Programs at St. George Campus**
Erindale students may enrol in programs not available at Erindale.
3. **Programs at Scarborough Campus**
Erindale students may **not** enrol in Scarborough College programs.

Program Requirements

1. You must enrol in at least one and no more than three programs (of which only two can be Majors and/or Specialists), after passing your fourth course.
2. You must meet any enrolment requirements for a program as stated in the Calendar. If you do not meet these requirements, you may subsequently be removed from the program.
3. The Program(s) you complete determine whether you receive a science or an arts degree. In this section each Program indicates the type of degree to which it leads.
 - One Specialist in a B.Sc. area leads only to an Hons. B.Sc.
 - One Major in a B.Sc. area plus one Major in a B.A. leads either to an Hon. B.Sc. or an Hon. B.A. - your choice (two majors must include twelve different courses)
 - In combinations of one Major + two Minors OR three Minors, two of the three programs must be in B.Sc. areas for an Hon. B.Sc. (combinations must include twelve different courses)
 - If two Minors are being used to receive a B.Sc. degree both Minors must be in B.Sc. areas (two Minors must include eight different courses.)

Courses

In this Calendar the term "courses" is used to describe full courses or the equivalent in full and/or half courses.

In this Calendar, courses are designated by their credit value as follows:

- Y Full credit course
H Half credit course

Symbols and Terms Used in Course Descriptions and Program Requirements:

- (P.I.) Permission of instructor required to enrol.
(I) Open to first-year students (shown after 200+ course number).
(G) Course available only on the St. George Campus.
- (,) comma)
(;) semi-colon) means AND
(&) ampersand)
(/) solidas symbol) means OR

"First Year", "Second Year", etc.:

Sequences of courses are given as guides, but need not be followed in the exact order listed, provided all pre- and co-requisites are observed.

Higher Years = Second, Third and Fourth Years

200 level = courses numbered in the 200's ONLY

200+ level = courses in the 200's or 300's or 400's

300+ level = courses numbered in the 300's or 400's

Individual Areas of Study

Students wishing to pursue a program other than or in addition to those listed in this section may apply, through their Dean, for an Individual Approved Area of Study. Such students should submit a coherent grouping of courses designed to meet their individual needs, and which is substantially different from any program existing in the Erindale Calendar or the St. George Arts and Science Calendar.

Specialist Program S04085
Major Program M04085

Animal Behaviour (B.Sc.)

Program Director: Professor T. M. Alloway,
Room 3036 (by appointment), (905)828-5370
Program Advisor: Stuart Kamenetsky, Room
3055, (905)828-3958

Specialist Program S24755

(Interdisciplinary)

11.0 full course equivalents are required
including at least 3.0 300/400 level and 1.0
400 level FCE.

LIMITED ENROLMENT - Enrolment in this
program is limited to students who have (a)
4.0 completed courses, (b) a grade of at
least 75% in PSY100Y, (c) a grade of at
least 75% in 1.0 FCE in Biology, and (d) a
minimum CGPA of 2.70. Students in this
program will be admitted to balloted courses
on the same basis as BIO and PSY
Specialists.

First Year: BIO151Y;PSY100Y

Higher Years: CHM140Y;MAT112Y/132Y/
138Y;BIO203H/207H,204H,205H,318Y,360H,
361H; PSY252H,260H,290H;BIO304H/
PSY399H; BIO481Y/PSY400Y;one additional
0.5 FCE in BIO or PSY at the 300/400 level

Anthropology (B.A.)

Specialist Program S17755

10.0 full course equivalents are required.

LIMITED ENROLMENT-Candidates for
admission to this program must have
completed ANT100Y with a grade of at
least 65%.

First Year: ANT100Y

Higher Years: ANT200Y,203Y,204Y,212Y/
241Y and 5.0 additional ANT courses, **3.0 of
which must be at the 300/400 level and at
least 1.0 at the 400 level.** A field or
laboratory course is recommended
(ANT318H/338H/358H)

Major Program M17755

7.0 full course equivalents are required
including at least 2.0 at the 300/400 level.

First Year: ANT100Y

Higher Years: ANT200Y,203Y,204Y and 3.0
additional ANT courses.

Minor Program R17755

4.0 full course equivalents are required
including at least 1.0 at the 300/400 level.

First Year: ANT100Y

Higher Years: 3.0 ANT courses.

Anthropology (B.Sc.)

Specialist Program S01055

12.0 full course equivalents are required.

LIMITED ENROLMENT-Candidates for
admission to this program must have
completed ANT100Y with a grade of at least
65%.

First Year: ANT100Y;GGR117Y/BIO151Y

Second Year: ANT200Y,203Y,204Y,318H/
338H;BIO205H/ENV317H/ERS219H/220H/
222H/GGR217Y/276H/JBG230H

Higher Years: 6.0 additional courses:

ANT212Y/241Y, plus 3.0 from ANT science
courses and 2.0 from ERS/GGR/BIO. **3.0 of
these courses must be at the 300/400 level
and 1.0 at the 400 level.**

Art and Art History

See Fine Art

Astronomy (B.Sc.)

Major Program M22045

8.0 full course equivalents are required.

First Year: AST110H;MAT102H,138Y/
(MAT112Y,232H)/(MAT132Y,232H),
MAT222H;PHY140Y/PHY135Y (70%)

Second Year: AST221H(G),222H(G);
MAT212H,368H;PHY241H,245H

Third Year: AST320H(G);JCP321H;
JCP322H/PHY345H

Astronomical Sciences (B.Sc.)

Specialist Program S10255

13.5 full course equivalents are required.

First Year: AST110H;MAT102H,138Y/
(MAT112Y,232H)/(MAT132Y,232H),
MAT222H;PHY140Y/135Y (70%)

Second Year: AST221H(G),222H(G);

MAT212H;368H;PHY241H,245H;STA250H

Third Year: AST320H(G);JCP321H,322H;

MAT311H,334H;PHY341H,345H

Fourth Year: AST420H(G),425H;

PHY352H(G),355H(G),443H,444H

Biochemistry (B.Sc.)

Program Advisors: Professor J.K. Reed
(905) 828-3806
Professor S.D. Taylor
(905) 828-5355

Specialist Program S17625

13.5 full course equivalents are required.

LIMITED ENROLMENT-Enrolment in this Program is restricted and selection will be based on completion of 4.0 full course equivalents including CHM140Y (minimum grade of 65%); MAT112Y/132Y/138Y, one full BIO course equivalent at 100 or 200 level; and a minimum GPA of 2.50 (or by Departmental permission).

First Year: CHM140Y; MAT112Y/132Y/138Y; PHY135Y/140Y; BIO202H/206H, 203H/207H

Higher Years:

1. CHM221H, 231H, 240Y; BIO215H
2. CHM341H/345H, 347H, 361H, 362H, 371H; JBC372H
3. 1.0 300 level BIO/CHM/MGB/PSL
4. BCH471Y(G) and 2.0 of CHM461H, BCH421H(G) to 430H(G), MGB425H(G), 420H(G)

NOTES:

1. The first three years of the Biochemistry Specialist program can be taken wholly at Erindale but students must take some fourth year courses on the St. George Campus.
2. Enrolment in CHM371H and BCH471Y(G) is limited.
3. BIO203H/207H may be taken in second year.

Biodiversity and Evolutionary Biology (B.Sc.)

Specialist Program S01105

13.5 full course equivalents are required, including at least 5.0 at 300/400 level, of which 1.0 full course must be at the 400 level.

LIMITED ENROLMENT - Enrolment in this program is limited to students who have completed 4.0 courses, including BIO151Y with a grade of 70%, and a cumulative grade point average of 2.50.

First Year:

1. BIO151Y; CHM140Y; MAT112Y/132Y/138Y/(CSC108H, 148H)

2. 1.0 FCE from the following: CLA201H; ENV100Y; ERS120H; PHY135Y/140Y, 235H; PSY100Y; WRI203H, 301H
3. Students are encouraged to take one of BIO202H/206H, 204H, 205H in their first year.

Second Year:

The remainder of: BIO202H/206H, 203H/207H, 204H, 205H, 215H

Third and Fourth Years:

1. BIO360H
2. 3.0 FCE from: BIO319H, 325H, 334H/338H, 335H, 354H, 356H, 370Y
3. 1.5 FCE from: BIO341H, 442H, 443H*, 464H
4. 1.0 FCE from: BIO301H/316H, 330H, 332Y, 353S, 361H; ENV317H*; GGR305H; JBC372H or from courses listed in #2 and #3
5. BIO481Y

*Offered in alternate years.

Biology (B.Sc.)

See also Biodiversity and Evolutionary Biology, Ecology, Molecular Biology, and Physiology Programs

Effective biological training involves careful study of real organisms, both living and dead. Consequently, almost all BIO courses with laboratories involve students in one or more of the following activities with animals, plants, and/or microorganisms: collecting and preserving organisms from the field; dissecting or handling preserved or euthanized specimens (or properly anaesthetized living specimens); observing and making measurements on organisms maintained under laboratory conditions approved by the Canadian Council of Animal Care. Completion of Specialist or Major programs in Biology will require students to participate in many such activities. Therefore, students who have objections to such activities should not attempt to major or specialize in Biology at Erindale. Students in non-Biology programs who wish to take a Biology course with minimal direct contact with organisms should consult the Biology advisor. In obtaining organisms for study in our courses and in studying outdoor natural areas, the Biology Group takes measures to avoid any impacts on threatened organismal groups or rare habitats, and to limit below sustainable levels the impacts of our collecting and measuring on local animal and plant populations.

Students without pre-and co-requisites or written permission of the instructor can be de-registered from courses at any time.

Specialist Program S23645

13.0 full course equivalents are required, including at least 5.0 at the 300/400 level, of which 1.0 must be at the 400 level.

LIMITED ENROLMENT-Enrolment in this program is limited to students who have completed 4.0 courses including 1.0 full credit in Biology with 60% or better, and who have achieved a cumulative GPA of at least 1.85. The actual GPA requirement in any particular year may exceed this value, in order to achieve a proper balance between enrolments and teaching resources. The Faculty Advisor may make alternative arrangements for admission to the Specialist Program in special circumstances.

Students who have not attained the standard required to enter the Specialist Program may enrol in the Major Program. If their GPA rises to 1.85, and they have completed CHM140Y, BIO151Y,202H/ (206H,215H),203H/207H,204H and 205H, they will then be eligible to switch to the Specialist Program, with written permission from the Faculty Advisor.

First Year:

1. BIO151Y;CHM140Y;MAT112Y/132Y/138Y/ (CSC108H,148H)
2. 1.0 from the following:
CLA201H;ENV100Y;ERS120H;PHY135Y/140Y,235H;PSY100Y;WRI203H,301H
3. Students are encouraged to take one of BIO204H,205H,206H in their first year.

Second Year: The remainder of: BIO204H, 205H,206H,207H,215H

Third and Fourth Years: BIO360H, 6.0 additional BIO options. At least 5.0 of these options must be at the 300 level or above, of which at least 1.0 must be at the 400 level.

It is recommended that students in the specialist program include at least 0.5 full course equivalent from each of four of the following groups:

Ecology and Field Biology: BIO301H,316H, 330H,332Y,337H,405H,418H*,464H;ENV317H*
Biology of Whole Organisms: BIO319H,325H, 334H,335H,338H,354H,356H

Genetics and Evolution: BIO341H,442H, 443H*,464H,475H

Cell, Molecular and Developmental Biology: BIO315H,353H,370Y,380H,452H*,475H,477H, JBC372H

Physiology and Behaviour: BIO304H,310H, 312H,318Y,328H,410H,418H*,420H*,422H,434H

Additional courses: BIO361H,481Y

* Offered in alternate years

NOTES:

1. Students wishing to emphasize cell biology, molecular biology, microbiology, physiology or genetics should take CHM 240Y in second year. Such students should take MAT112Y/132Y/138Y, a prerequisite, in their first year.
2. CHM240Y,361H,362H,JBC372H, JBG230H, and PHY235H will automatically be accepted as equivalent to BIO course options in the Specialist program.
3. No substitute statistics course will be allowed for BIO360H except under extenuating circumstances.
4. Certain Erindale Biology courses will be treated as equivalent to corresponding St. George campus courses in satisfying requirements for certain St. George specialist programs related to Biology and Basic Medical Sciences. Students who intend to begin these programs at Erindale should consult a Biology advisor as early as possible.

Major Program M23645

7.0 full course equivalents are required including at least 2.0 at the 300/400 level.

1. CHM140Y;MAT112Y/132Y/138Y/ (CSC108H,148H)
2. BIO151Y,202H/206H,203H/207H, 204H,205H
3. 2.0 in Biology from the 300 or 400 level.

NOTES:

1. No courses outside Biology are allowed as substitutions for the 2.0 required 300/400 level courses.
2. Although BIO215H is not required for a Biology Major, it is a prerequisite for many cell and molecular courses at the 300 level. Students should consider carefully which 300/400 level courses they intend to take.
3. PSL201Y(G) will not meet the Physiology requirements for the Biology Major program and may not be substituted for BIO204H.
4. Students intending to apply to professional schools are recommended to include 1.0 FCE of Statistics which may be counted towards a Biology major. BIO360H and BIO361H are recommended choices.

Canadian Studies (B.A.)

Faculty Advisor: Professor J. Dutka
(905) 828-3737

"The most valid and compelling argument for Canadian Studies is the importance of self-knowledge, the need to know and to understand ourselves."

The Canadian Studies Program at Erindale offers both a Specialist and a Major concentration drawn from courses in Anthropology, Commerce, Economics, English, Fine Art, French, Geography, History, Philosophy, Political Science, Religious Studies, and Sociology. Interdisciplinary in nature, the program is nonetheless designed so that students can fulfill entrance requirements of the Faculty of Education or the School of Graduate Studies by a careful selection of courses in other areas. Students wishing to complete a Specialist or Major certification in Canadian Studies must notify and register with the Faculty Advisor.

Specialist Program S07285

11.0 full course equivalents are required.

First and Second Years: HIS262Y; POL100Y; ENG252Y; FSL160H, 182H (or, if exemption is granted, a course in French Canadian literature in the original language).

Third and Fourth Years: GGR263H, 361H; ERI401Y, 402Y; and 4.0 courses (at least 2.0 of which must be at the 300/400 level) with a disciplinary, thematic or chronological coherence chosen, with the approval of the advisor of the Program, from the list of approved courses offered on either the Erindale or the St. George Campuses.

Major Program M07285

7.0 full course equivalents are required.

HIS262Y; POL100Y; ENG252Y; FSL160H, 182H (or, if exemption is granted, a course in French Canadian Literature in the original language); GGR263H, 361H; and 2.0 courses chosen from those approved for the Specialist program, both of which must be at the 300/400 level.

For course descriptions of ERI401Y and ERI402Y, see under Erindale College Courses.

Chemistry (B.Sc.)

Specialist Program S13765

13.0 full course equivalents are required.

LIMITED ENROLMENT-Enrolment in the Chemistry Specialist Program is based on completion of 4.0 full course equivalents including CHM140Y (minimum grade of 65%) and MAT112Y/132Y/138Y.

First Year: CHM140Y; MAT112Y/132Y/138Y; PHY135Y/140Y

Higher Years:

1. CHM211H, 221H, 231H, 240Y; MAT212H/232H/248Y/258Y
2. CHM311H, 331H, 341H/345H, 391H, 393H, 489Y; JCP321H
3. 1.5 400 level CHM courses
4. 1.0 300/400 level CHM courses
5. 0.5 300/400 level CHM/MAT/other Science course.

NOTES:

1. 400 level CHM courses available include CHM414H, 461H, 485H at Erindale, plus the selection of CHM400 level courses at St. George.
2. 300 level CHM courses available include CHM333H, 341H, 345H, 347H, 361H, 362H; JCP322H
3. Students are strongly advised to consult program advisors regarding the program of study.
4. MAT prerequisite is required for all 200 level CHM courses.

Major Program M13765

7.0 full course equivalents are required.

LIMITED ENROLMENT-Enrolment in the Chemistry Major Program is based on completion of 4.0 full course equivalents including CHM140Y and MAT112Y/132Y/138Y.

First Year: CHM140Y; MAT112Y/132Y/138Y

Higher Years:

1. CHM211H, 221H, 231H, 240Y, 371H/391H/393H
2. 2.0 additional 300/400 level CHM/JCP full course equivalents.

NOTES:

1. MAT prerequisite is required for all 200 level CHM courses.
2. For a balanced training in Chemistry, students should take CHM311H, 331H/333H, 341H/345H, JCP321H.

Minor Program R13765

4.0 CHM/JCP full course equivalents are required.

LIMITED ENROLMENT-Enrolment in the Chemistry Minor Program is based on completion of 4.0 full course equivalents including CHM140Y.

First Year: CHM140Y

Higher Years: 3.0 CHM/JCP full course equivalents, at least 1.0 of which must be at the 300/400 level.

NOTE:

MAT 112Y/132Y/138Y prerequisite is required for all 200 level CHM courses.

Chemistry and Biochemistry (B.Sc.)

Program Advisors: Professor J.K. Reed
(905) 828-3806
Professor S.D. Taylor
(905) 828-5355

Specialist Program S12135

14.0 full course equivalents are required.

LIMITED ENROLMENT-Enrolment in the Chemistry and Biochemistry Specialist Program is based on completion of 4.0 full course equivalents including CHM140Y (minimum grade of 65%), MAT112Y/132Y/138Y and one of BIO151Y/202H/203H/206H/207H. A minimum cumulative grade point average (CGPA) of 2.50 is required.

First Year: CHM140Y; MAT112Y/132Y/138Y; PHY135Y/140Y; BIO202H/206H, 203H/207H

Higher Years:

1. BIO215H; CHM211H, 221H, 231H, 240Y; MAT212H/232H/248Y/258Y
2. CHM347H, 361H, 362H, 371H, 391H/393H; JBC372H; CHM489Y/BCH471Y(G)
3. 1.5 from CHM311H, 331H, 333H, 341H, 345H; JCP321H
4. 0.5 BCH400(G) level course
5. 0.5 400 level CHM course.

NOTES:

1. Enrolment in BCH471Y(G) and CHM371H is limited.
2. Additional 300/400 level CHM courses available include CHM414H, 461H, 485H and JCP322H at Erindale plus the 300/400 level CHM courses at St. George.
3. Students are strongly advised to consult Program Advisors regarding the Program of study.
4. MAT prerequisite is required for all 200 level CHM courses.
5. BIO203H/207H may be taken in second year.

Cinema Studies (B.A.)

Program Coordinator: Dean C. Rubincam
(905) 828-5218

The program treats film primarily as a unique and powerful twentieth century art form with its own traditions, history, conventions and techniques. Understanding film, its properties, methods and aesthetics, its impact on culture and society, is the basis of the program.

Minor Program R07975

4.0 full courses are required.

First Year: ERI112Y

Second Year: ITA242Y; GER251Y

Third Year: ITA342Y

Classical Civilization (B.A.)

Consult Department of Classics

The program is designed to meet the needs both of students seeking a broad survey of Greek and Roman culture and of specialists in other Humanities subjects who require background knowledge of Classics for their particular interests, whether literary, historical or philosophical.

Major Program M03825

6.0 full course equivalents are required.

First Year: CLA160Y

Higher Years: 5.0 additional CLA courses at the 200+ level, including 2.0 at the 300/400 level.

NOTE: DRE240H may be counted as a CLA course. Up to 2.0 courses in ancient Art (e.g., FAH101Y/256H/258H) or ancient Philosophy (e.g. PHL200Y/300H) may be substituted for CLA courses.

Minor Program R03825

4.0 full course equivalents are required.

First Year: CLA160Y

Higher Years: 3.0 CLA courses at the 200+ level, including 1.0 at the 300/400 level.

NOTE: DRE240H may be counted as a CLA course. Up to 2.0 courses in ancient Art (e.g. FAH101Y/256H/258H) or ancient Philosophy (e.g. PHL200Y/300H) may be substituted for CLA courses.

Commerce (B.Com./B.A.)

Specialist Program (B.Com.) S22735 Commerce and Finance

This program leads to the Bachelor of Commerce degree and requires a total of 14.0 to 15.0 full course equivalents out of a total of 20.0 courses.

LIMITED ENROLMENT-Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite courses**
MGT120H(63%);ECO100Y(63%);
MAT112Y/MAT132Y in a minimum of 4.0 courses.
2. **Cumulative Grade Point Average (CGPA)**
Each year the Management Department sets a minimum required CGPA. This will vary from year to year and is based, in part, on supply and demand. Over the past 5 years it has ranged from 2.20 to 2.50.

Application for admission to the program for September is normally made in February of that year. Contact Management Department for **dates**.

NOTE: RE - Transfer Students

Students who have attended another post-secondary institution, or another Faculty within the University of Toronto (including Scarborough College) and who wish to apply for admission to the Commerce Programs must meet the following requirements.

1. Transfer credit requirements
MGT120H, ECO100Y C+ (67%)
MAT132Y PASS
2. Have obtained at least 4.0 transfer credits on admission to the Faculty of Arts and Science.
3. Minimum overall average on admission: B+ (77%)

Please consult the Commerce Programs Handbook for more detailed information.

Enrolment in 200+ level MGT courses is restricted to students enrolled in the Commerce Programs and to Special Students. Students select their 200+ level MGT courses on a ballot form. Balloting for Winter courses takes place in April of each year.

First Year:

1. MGT120H
2. ECO100Y
3. MAT112Y/132Y or equivalent

Higher Years:

- A. Additional Management Component (5.5 full course equivalents)
 - (a) MGT123H,220H,337Y
 - (b) 1.5 courses from:
MGT252H,262H,353H,363H,371H,393H
 - (c) 1.0 400 level MGT full course equivalent.
 - (d) 1.0 additional 200+ level MGT course.
 - (e) No more than 15.0 MGT and ECO courses may be taken for degree credit.
NOTE: STA(250H,255H/257H) and GGR270Y(G) count as ECO credits.
- B. Additional Economics Component (5.0 full course equivalents)
 - (a) ECO200Y/206Y
 - (b) ECO202Y/208Y
 - (c) ECO220Y/227Y/(STA250H,255H(G)/257H)
 - (d) 2.0 300+ level ECO full course equivalents
NOTE: No more than one Economic History course from: ECO201Y,302Y,303Y,306Y,321Y,322Y,323Y,335Y,342Y,452Y,453Y,457Y
- C. Writing Component
2.0 full course equivalents from the following: ANT100Y,204Y;CLA (except 201H); (one of ECO303Y/321Y/322Y/323Y); ENG;FAH;HIS;HPS;LIN;PHL (except 245H,246H,247H,344H,345H,346H,347H); POL;RLG;SOC (excluding SOC300Y);WRI

NOTES:

1. **The Program requirements in effect at the time the student is admitted to the program must be met in order to fulfill the Degree requirements.**
2. MGT310Y(G) may be counted as an ECO course.
3. Students interested in combining a B.Com. degree with an Economics Specialist Program should refer to the appropriate Program of Study for details.

Major Program (B.A.) M11115

Commerce

7.0 full course equivalents are required.

LIMITED ENROLMENT-Enrolment in this program is limited to students who meet the following criteria:

1. Prerequisite courses

MGT120H(63%);ECO100Y(63%);
MAT112Y/132Y in a minimum of 4.0
courses.

2. Cumulative Grade Point Average (CGPA)

Each year the Management Department sets a minimum required CGPA. This will vary from year to year and is based, in part, on supply and demand. Over the past 5 years it has ranged from 2.20 to 2.50.

Application for admission to the program for September is normally made in February of that year. Contact Management Department for dates.

NOTE: RE - Transfer Students

Students who have attended another post-secondary institution, or another Faculty within the University of Toronto (including Scarborough College) and who wish to apply for admission to the Commerce Programs must meet the following requirements.

1. Transfer credit requirements
MGT120H, ECO100Y C+ (67%)
MAT132Y PASS
2. Have obtained at least 4.0 transfer credits on admission to the Faculty of Arts and Science.
3. Minimum overall average on admission:
B+ (77%)

Please consult the Commerce Programs Handbook for more detailed information.

Enrolment in 200+ level MGT courses is restricted to students enrolled in the Commerce Programs and to Special Students. Students select their 200+ level MGT courses on a ballot form. Balloting for Winter courses takes place in April of each year.

1. First Year:

MGT120H
ECO100Y
MAT112Y/132Y or equivalent

2. Higher Years:

- a) ECO220Y/227Y/(STA250H,255H(G)/257H)
- b) MGT123H,220H,252H,331Y/337Y
- c) 1.0 from MGT330H,363H,371H,393H, any 400 level MGT.

NOTE: The Program requirements in effect at the time the student is admitted to the program must be met in order to fulfill the Degree requirements.

Computer Science (B.Sc.)

Specialist Program S16885

13.0 full course equivalents are required.

LIMITED ENROLMENT-Enrolment in this program is limited to students who meet the following criteria:

1. Prerequisite courses

A minimum of 4.0 courses to include
CSC148H (60%); MAT138Y(60%)

2. Cumulative Grade Point Average (CGPA)

The minimum CGPA is determined annually. It is never lower than 2.0.

First Year: CSC148H;MAT102H,138Y;
STA107H

First or Second Year: CSC209H,228H,
238H,258H,270H;1.0 FCE writing requirement
(see Note 1. below)

Second Year: MAT248Y,258Y

Second or Third Year: STA250H/257H

Third Year: CSC324H,350H,364H,378H;

MAT301H(G)/302H(G)/315H/334H/344H

Third or Fourth Year:

1. 0.5 from CSC351H(G),446H(G),456H(G)
2. 0.5 from CSC438H(G),448H(G),
465H(G),478H(G)
3. 0.5 from Group A, and 0.5 from either A or B
 - A. CSC408H(G),418H(G),428H(G),
434H(G),458H(G),468H(G),485H(G),
486H(G),487H(G),488H(G)/
ECE489H(G)
 - B. CSC340H,354H,372H(G),384H(G),
454H(G);ECE385H(G)

NOTES:

1. Writing Requirement:
Students in Computer Science, Information Systems, and Software Engineering are required to include a writing requirement in their program, to be chosen from the following list.
ANT 100Y,204Y
CLA 160Y, any 200 or 300 level except 201H
ENG any 100 or 200 level except 269Y
ERI 100H
GER 235Y,251Y
HIS any 100 or 200 level
ITA 242Y,342Y
PHL 100Y,101Y,102Y,
any 200 or 300 level except 245H,246H,247H,344H,345H,346H,
347H,349H,351H,356H
POL 100Y, any 200 level except 242Y
RLG 100Y, any 200 level
WRI 203H,205H,301H
2. Students are advised to arrange their program so as to complete the requirement for the Major in Computer Science by the end of the third year.

Major Program M16885

8.0 full course equivalents are required.

LIMITED ENROLMENT-Enrolment in this program is limited to students who meet the following criteria:

1. Prerequisite courses

A minimum of 4.0 courses to include CSC148H(60%); MAT112Y(60%)/132Y(60%)/138Y(57%)

2. Cumulative Grade Point Average (CGPA)

The minimum CGPA is determined annually. It is never lower than 2.0.

First Year: CSC148H;MAT102H,112Y/132Y/138Y

First or Second Year: CSC209H/228H, 258H,270H; 0.5 FCE writing requirement (see Note 1., CSC Specialist program)

Second Year: MAT248Y/(MAT222H; STA107H/257H)

Higher Years: 3.0 courses from the following groups:

1. 1.0 from group A
 - A. CSC324H,340H,354H,372H(G), 384H(G),408H(G),418H(G),428H(G), 434H(G),454H(G),458H(G),468H(G), 485H(G),486H(G),487H(G),488H(G)/ECE489H(G);ECE385H(G)
2. 1.0 from group B
 - B. CSC238H,350H,351H(G),364H, 378H,438H(G),446H(G),448H(G), 456H(G),465H(G),478H(G)
3. Additional 1.0 from Group A or B or CSC300H(G),318H(G)

Minor Program R16885

4.0 full course equivalents are required.

First Year: CSC148H;MAT112Y/132Y/138Y
First or Second Year: CSC228H/270H, 238H,258H

Higher Years: 0.5 from CSC324H,340H, 354H,418H(G),428H(G),434H(G),454H(G), 458H(G),468H(G),485H(G);ECE385H(G)
0.5 from CSC350H,364H,378H,438H(G), 448H(G),465H(G),478H(G)

Computer Science in Information Systems (B.Sc.)

Specialist Program S10375

15.0 full course equivalents.

LIMITED ENROLMENT-Enrolment in this program is limited to students who meet the following criteria:

1. Prerequisite courses

A minimum of 4.0 courses to include CSC148H(60%);MAT138Y(60%)

2. Cumulative Grade Point Average (CGPA)

The minimum CGPA is determined annually. It is never lower than 2.0.

First Year: CSC148H;MAT102H,138Y; MGT120H;one 100 level full course in ECO/HIS/PHL/POL/PSY/SOC

First or Second Year: CSC209H,228H, 238H,258H,270H;STA107H/(220H,221H);1.0 FCE writing requirement (see Note 1., CSC Specialist program)

Second or Third Year: MAT248Y/222H; STA250H/257H

Third or Fourth Year: CSC324H,340H, 350H,364H,378H;MGT262H/362H/363H/WDW260Y

Fourth Year: CSC318H(G)/428H(G), 408H(G),434H(G),454H(G)/MGT374H(G)/474H(G)

Three of CSC354H,372H(G),384H(G); ECE385H(G);CSC418H(G),458H(G),465H(G), 468H(G), (one of CSC485H(G),486H(G), 487H(G)),488H(G)/ECE489H(G)

NOTES:

1. Students are advised to arrange their program so as to complete the requirements for the Major in Computer Science by the end of the third year.
2. If you do not take STA107H, you may have to take STA257H to satisfy course prerequisites in this program and in the Major program.

Software Engineering (B.Sc.)

Specialist Program S10395

13.0 full course equivalents are required.

LIMITED ENROLMENT-Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite courses**

A minimum of 4.0 courses to include CSC148H (60%);MAT138Y(60%)

2. **Cumulative Grade Point Average (CGPA)**

The minimum CGPA is determined annually. It is never lower than 2.0.

First Year: CSC148H;MAT102H,138Y; STA107H

First or Second Year: CSC209H,228H, 238H,258H,270H; 1.0 FCE writing requirement (see Note 1., CSC Specialist program)

Second or Third Year: CSC318H(G)/ 428H(G),324H;MAT248Y/222H;STA250H/ 257H

Third or Fourth Year: CSC340H,350H, 364H,378H,408H(G); two of CSC354H, 372H(G),ECE385H(G),CSC384H(G),454H(G), 465H(G); three of CSC418H(G),434H(G), 458H(G),468H(G),488H(G)/ECE489H(G)

NOTES:

- Students are advised to arrange their program so as to complete the requirements for the Major in Computer Science by the end of the third year.
- Students in this program are strongly encouraged to consider participating in the PEY program. For information on PEY, phone (416) 978-6649.

Crime and Deviance (B.A.)

Faculty Coordinator: Professor D. Brownfield (Sociology) (905) 828-3941

This approved area of study is designed to provide a broad foundation for students who may have an academic or civic interest in issues of crime and its control.

This might include:

- students who at a later stage may wish to pursue more advanced work in areas related to, for example, criminology or social work;
- students wanting to know more about the topics of the sociology of crime, particularly as these become issues of public policy.

Major Program M07275

7.0 full course equivalents are required including at least 2.0 300/400 level courses.

LIMITED ENROLMENT- Students applying to enrol after having completed 4.0 full course equivalents must obtain a CGPA of at least 1.80 and a mark of at least 62% in 1.0 SOC course. Students applying to enrol after having completed 8.0 full course equivalents must obtain a CGPA of at least 2.00 and a mark of at least 65% in each of 2.0 SOC courses.

First Year: SOC101Y;PSY100Y

Higher Years: SOC211H,200Y/300Y,307H

Optional Courses: 3.0 full course equivalents to be selected from the following: SOC301Y, 303H,324Y,329H,346Y;PHL271H,283H,370H; PSY(220H+320H)/220Y,230H,260H, (240H+340H)/340Y

NOTE: BALLOTING: Enrolment in **ALL** Sociology courses (except SOC101Y and Sociology Independent Research courses) is based on the results of balloting during the spring of the previous academic year. Priority is given to students in Sociology Specialist, Major and Crime & Deviance Programs. Spaces are allotted on the basis of CGPA.

Drama Studies (B.A.)

Specialist Program: S18805

Theatre and Drama Studies

LIMITED ENROLMENT-Enrolment in this program is limited to students who are successful in an audition, conducted in April/May of each year.

For audition requirements, contact: Music Theatre Dept., Sheridan College, 1430 Trafalgar Rd., Oakville, Ont. L6H 2L1 or phone Anne McMullen (905) 845-9430 ext. 2577.

Enrolment in all studio courses (DRS) and DRE400Y is restricted to students in the program.

12.0 full course equivalents are required.

First Year: DRE120Y;DRS121Y

Second Year: DRS221Y, and 1.0 full-course equivalent in Theatre History (chosen from DRE240H/242H/244H/246H)

Third Year: DRE340H,342H;DRS321Y, 325Y

Fourth Year: DRE400Y, DRS421Y, 425Y
 **2.0 additional courses are required to reach the total of 12.0 courses and they may be selected from the following: CLA300Y; *DRE344H, *346H, *390Y; ENG220Y, 223H, *332Y, *338Y, *339H, *405/406H (when a dramatist), *420/421H (when a dramatist); ERI112Y; FRE*317H; GER251Y, 355Y; ITA242Y/ *243Y, *315Y, *316Y, 342Y/*343Y, *372Y.
 * = Departmental prerequisites
NOTE:

1. No more than a combination of 14.0 Drama related courses may be taken.

Minor Program: R24685 Drama Studies

4.0 full course equivalents, as follows:

1. DRE120Y
2. 1.0 from DRE240H/242H/244H/246H
3. DRE340H, 342H
4. 1.0 drama-related course. (See list of electives under Specialist Program.)

Earth Science (B.Sc.)

See ENVIRONMENT (Earth Science)

Ecology (B.Sc.)

Specialist Program S10825

13.5 full course equivalents are required, including at least 5.0 at the 300/400 level, of which 1.0 full course must be at the 400 level.

LIMITED ENROLMENT - Enrolment in this program is limited to students who have completed 4.0 courses, including BIO205H with a grade of 70%, and a cumulative grade point average of 2.50.

First Year:

1. BIO151Y; CHM140Y; MAT112Y/132Y/138Y
2. 1.0 FCE from the following: CLA201H; CSC108H, 148H; ENV100Y; ERS120H; PHY135Y/140Y, 235H; PSY100Y; WRI203H, 301H
3. Students are encouraged to take one of BIO202H/206H, 204H, 205H

Second Year: The remainder of: BIO202H/206H, 203H/207H, 204H, 205H

Third and Fourth Years:

1. BIO361H
2. 1.0 FCE from: MAT212H, 222H, 232H; STA301H, 302H, 322H; GGR261H (requires ENV100Y)

3. 0.5 FCE from: BIO301H, 316H, other U. of T. Field Courses (P.I.)
4. 1.0 FCE from: BIO319H, 325H, 334H/338H, 335H, 354H, 356H
5. 1.0 FCE from: BIO318Y, 341H, 422H, 442H, 443H*
6. 0.5 FCE from: BIO215H, 310H, 312H, 410H, 420H*, 434H
7. 1.5 FCE from: BIO330H, 332Y/337H, 405H, 418H*, 464H; ENV317H*
8. BIO481Y

*Offered in alternate years.

Economics (B.A., B.COM.)

Enrolment in Economics programs is based on grades in ECO100Y and, in some cases, MAT112Y or MAT132Y. There is no grade point average requirement and no restriction on the number of students entering any one program. Departmental permission is required.

Specialist Programs

NOTE: Program a) leads to the B.A. degree. Program b) can only be taken jointly with a Specialist program in Commerce and Finance, and thus leads to a B.Com. degree. Enrolment in Program b) is thus open only to those who have been admitted to the B.Com. degree program.

a) Economics Specialist Program S14785

LIMITED ENROLMENT-Enrolment in this program is limited to students with 70% in ECO100Y and (60% in MAT132Y or 55% in MAT138Y).

13.0 full course equivalents are required.

First Year: ECO100Y; MAT132Y/138Y

Higher Years:

1. ECO206Y, 208Y, 227Y/(STA250H, 257H), ECO322Y, 325H, 326H, 327Y
2. ECO303Y/323Y
3. 4.0 additional 300+ level ECO courses, including at least 1.0 400 level course
4. Students are strongly advised to take ENG100H before completing 15.0 courses.

Major Program M14785

LIMITED ENROLMENT-Enrolment in this program is limited to students who have 63% in ECO100Y or who have passed ECO100Y and have a cumulative GPA of 2.50.

7.0 full course equivalents are required.

First Year: ECO100Y; MAT112Y/132Y/138Y

Higher Years: ECO200Y/206Y, 202Y/208Y, 220Y/227Y/(STA250H, 257H)

2.0 additional 300/400 level ECO courses, 1.0 of which must include ECO200Y/202Y/206Y/208Y as a prerequisite.

Minor Program R14785

LIMITED ENROLMENT-Enrolment in this program is limited to students who have 63% in ECO100Y or who have passed ECO100Y and have a cumulative GPA of 2.50.

4.0 full course equivalents are required.

First Year: ECO100Y

Higher Years: ECO200Y/202Y/206Y/208Y, 2.0 additional ECO courses, including at least 1.0 300/400 level course.

b) Specialist Program: Economics (Commerce and Finance) S01375

This program can only be taken jointly with the Specialist program in Commerce and Finance, and thus leads to a B.Com. degree. Students must be accepted in the Commerce and Finance (B.Com.) Program to register in the Economics (Commerce and Finance) program.

LIMITED ENROLMENT-Enrolment in this program is limited as follows: 70% in ECO100Y and (60% in MAT132Y or 55% in MAT138Y) and 63% in MGT120H and a minimum cumulative GPA.

15.5 full course equivalents are required.

First Year: ECO100Y; MAT132Y/138Y; MGT120H

Higher Years:

1. Additional MGT Requirements (5.5 full course equivalents)
 - a. MGT123H, 220H, 337Y
 - b. 1.5 credits from MGT252H, 262H, 353H, 363H, 371H, 393H
 - c. One 400 level MGT full course equivalent
 - d. 1.0 additional 200+ level MGT course
 - e. No more than 15.0 MGT and ECO courses may be taken for degree credit. STA250H, 257H count as ECO courses
2. Additional ECO Requirements (6.5 full course equivalents):
 - a. ECO206Y, 208Y, 227Y/STA (250H, 257H)
 - b. ECO327Y
 - c. One Economic History course from: ECO303Y/322Y/323Y
 - d. ECO325H, 326H plus 0.5 additional ECO course at the 300+ level
3. Writing Component (1.0 full course equivalent):

One full course equivalent from the following: ANT100Y, 204Y; CLA (except 201H); ENG; FAH; HIS; LIN; PHL (excluding PHL245H, 344H, 345H, 346H, 347H); POL; RLG; SOC (excluding SOC300Y); WRI

Major Program: Economics (Commerce and Finance) M01375

Completion of the Commerce and Finance (B.Com.) Specialist Program may fulfill the requirements of the Economics Major program. Students must, however, obtain Departmental permission for entry to the Economics Program.

Economics and Political Science (B.A.)

Combined Specialist Program S07515

LIMITED ENROLMENT-Enrolment in this program is limited.

Students enrolling at the end of first year (4.0 courses) must obtain:

- (1) a mark of at least 67% in 1.0 POL course and at least 63% in ECO100Y, and a minimum Cumulative Grade Point Average of 1.80.

OR

- (2) a mark of at least 67% in 1.0 POL course and at least 50% in ECO100Y, and a minimum Cumulative Grade Point Average of 2.50.

Students enrolling at the end of second year (8.0 courses) must obtain:

- (1) a mark of at least 70% in each of 2.0 POL courses and at least 63% in ECO100Y, and a minimum Cumulative Grade Point Average of 2.00.

OR

- (2) a mark of at least 70% in each of 2.0 POL courses and at least 50% in ECO100Y, and a minimum Cumulative Grade Point Average of 2.50.

The following courses must be included in the program:

Economics

8.0 full course equivalents
ECO100Y, 200Y/206Y, 202Y/208Y, 303Y/323Y, 220Y/227Y/(STA250H, 257H), ECO322Y; MAT112Y/132Y/138Y;
1.0 additional 300/400 level course in Economics.

Political Science

7.0 full course equivalents in POL, including at least 2.0 300/400 level courses of which 1.0 must be a 400 level course.

1. POL100Y
2. POL200Y,309Y
3. 1.0 course from two of the fields listed under requirements for Political Science Specialist Program. (P. 66)
4. 2.0 additional full course equivalents in Political Science.

English (B.A.)

Specialist Program S16455

At least 10.0 full course equivalents and not more than 14.0 ENG courses fulfilling the following requirements:

1. ENG201Y/202Y
2. At least 3.0 courses selected from the pre-1800 group of courses (Group A, below), at least 2.0 of them at the 300 level or higher.
3. At least 2.0 courses selected from the post-1800 group of courses (Group B, below), both of them at the 300 level or higher.
4. At least 1.0 course selected from the Canadian Literature group of courses (Group C, below).
5. At least 1.0 course at the 400 level.
6. Only 1.0 100 level course may be counted toward the program requirements; ENG100H may NOT be counted.

Group A: ENG220Y,240Y,300Y,302Y,304Y,306Y,322Y,330H,332Y,334H,400Y,401Y,405H,406H,440Y,441Y,442Y,455H,456H,457H

Group B: ENG213H,214H,236H,237H,250Y,253Y,258Y,276Y,308Y,309Y,310Y,324Y,328Y,329H,338Y,339H,348Y,349H,358Y,359Y,361H,366Y,420H,421H,443Y,444Y,458H,459H

Group C: ENG215H,216Y,223H,252Y,350H,354Y,356H,430H,431H

Major Program M16455

At least 7.0 ENG courses fulfilling the following requirements:

1. ENG201Y/202Y
2. At least 2.0 courses selected from the pre-1800 group of courses (Group A, above), at least 1.0 of them at the 300 level or higher.
3. At least 1.0 course, at the 300/400 level, selected from the post-1800 group of courses (Group B, above).

4. At least 1.0 course selected from the Canadian Literature group of courses (Group C, above).
5. Only 1.0 100 level course may be counted toward the program requirements; ENG100H may NOT be counted.

Minor Program R16455

At least 4.0 ENG courses including at least 1.0 300/400 level, fulfilling ALL of the following requirements:

1. ENG201Y/202Y
2. Only 1.0 100 level course may be counted toward the program requirements; ENG100H may NOT be counted.

NOTE: "Courses" refers to full (Y) courses or the equivalent in half (F,S,H) courses.

English and History (B.A.)

Combined Specialist Program S04775

14.0 full course equivalents are required.

LIMITED ENROLMENT-Enrolment in this program is limited. Students may enrol after completing at least 4.0 courses, including 2.0 HIS courses with a mark of at least 70% in each.

I. English

At least 6.0 and no more than 8.0 courses according to the following categories:

1. ENG201Y/202Y
2. At least 2.0 courses selected from the pre-1800 group of courses (Group A above), at least 1.0 of them at the 300/400 level.
3. At least 1.0 course, at the 300/400 level, selected from the post-1800 group of courses (Group B above).
4. At least 1.0 course selected from the Canadian Literature group of courses (Group C above).
5. Only 1.0 100 level course may be counted; ENG100H may NOT be counted.

II. History

First Year: A 100 level HIS course; an additional HIS course at the 100 or 200 level.

Higher Years: Additional HIS courses to a total of at least 7.0 in at least two areas as defined in the History Handbook. These courses must include at least 3.0 300/400 level courses in British, Canadian, or U.S. History.

- III. 1.0 course will be a senior essay (either ENG490Y or HIS497Y) in the final year of study on a topic chosen by the student and written under the supervision of the appropriate Department. Students enrolling in either course must follow the procedures set out in the course description. NOTE: ENG490Y has a prerequisite of 4.0 ENG courses with an overall average of B. Specialists may substitute non-HIS courses taught elsewhere in the Faculty for up to 3.0 of the HIS courses.

Students in the Program are required to confirm their Programs annually with the Faculty Advisor during the registration period.

ENVIRONMENT

Environment at Erindale consists of a set of four interdisciplinary program areas. They are: Earth Science, Environmental Analysis, Environmental Science, and Environmental Management. A wide spectrum of possible student interests is encompassed by these programs. The programs represent a collaborative effort among several disciplines in the Science, Social Science and Humanities Divisions; including Anthropology, Biology, Chemistry, Earth Science, Economics, Geography, History, Management, Mathematics, Philosophy, Physics, Political Science and Statistics.

Information is also available on-line through the Environmental Home Page on the World Wide Web.

Earth Science (B.Sc.)

Faculty Advisor: Professor H. Halls (Earth Science) (905) 828-3865

The programs in Earth Science have four main goals: (1) to teach the fundamental processes involved in the global Earth system; (2) to provide an understanding of the principal aspects of geological resources; (3) to study the causes and mitigation of hazards such as earthquakes, volcanic eruptions, and groundwater contamination; and (4) to learn how to minimize and adjust to global change. This approach, by focusing on a global environmental perspective, should appeal to students who have a general interest in geological processes and their fundamental role in our environment and the evolution of our planet.

Specialist Program S14655

13.0 full course equivalents are required, including at least 5.0 at the 300/400 level of which 1.5 must be at the 400 level.

First Year: ENV100Y/(ERS103H,120H); CHM140Y;MAT112Y/132Y;PHY135Y/140Y

Second Year: ERS215H,217H,219H,220H,222H;GGR217Y;PHY237H

Third Year: ERS319H,325H,336H,337H/340H;1.5 FCE from GGR316H/321H/337H/376H/379H

Fourth Year: ERS470Y/471H/472H; ENV400Y

Major Program M14655

8.0 full course equivalents are required, including at least 2.0 at the 300/400 level.

First Year: ENV100Y/(ERS103H,120H)/GGR117Y;CHM140Y; PHY135Y/140Y

Second Year: ERS215H/217H,219H,220H,222H;GGR217Y

Third and Fourth Year: ERS319H,325H,336H,337H/340H

Minor Program R14655

4.0 full course equivalents are required.

First Year: ENV100Y/(ERS103H,120H)/GGR117Y

Second Year: ERS219H,220H,222H,215H/217H

Third Year: 1.0 FCE from ERS300 level

NOTES:

1. See also the Environmental Science Program, which combines Biology, Earth Science, and Geography.
2. Approved areas of study are: Earth Science & Anthropology, Earth Science & Chemistry, Earth Science & Physics, and Geoarchaeology. Consult Undergraduate Secretary for the details of these programs.
3. Students wishing for a more traditional geological training, in which greater emphasis is placed on the laboratory and field study of rocks, should enrol in the Geology (S05091) or the Geology and Chemistry (S50791) Specialist programs described in the St. George Calendar. Students must then take their Geology courses on the St. George Campus after their second year.

Environmental Analysis (B.Sc.)

Program Advisor/Coordinator:

Prof. U.J. Krull (Chemistry)

Room 2038

(905) 828-5343

This program will introduce students of physics and chemistry to the field of environmental analysis. Through the examples of the latest research techniques and by means of state-of-the-art procedures for monitoring the environment, it leads students toward future careers in environmental science and technology. The content of its courses prepares graduates to use effective strategies for the chemical and physical remediation and control of environmental problems. The program begins with a common base of scientific training, and then permits students to branch out to concentrate on either the biological or the physical aspects of environmental studies. This is a broad program which gives students both the skills and background that are considered essential prerequisites by many industrial and government employers. By having the necessary scientific knowledge and experience, graduates of this program will make important contributions to the solution of environmental problems that may be of concern to our local communities.

Specialist Program S10805

13.0 full course equivalents are required.

First Year: CHM140Y;ENV100Y;MAT112Y/
132Y/138Y;PHY135Y/140Y

Second Year:

1. CHM211H,221H;PHY237H

2. Selection of:

Physical Processes: GGR217Y/
(ERS219H,220H/222H) or

Biological Processes: BIO204H,205H

Third and Fourth Year:

1. BIO360H;CHM240Y,311H,391H;ENV400Y

2. Selection of 3.0 course equivalents from one stream, with a maximum of 1.5 from any one Department

Physical Processes: BIO361H/CHM231H/
414H/ERS336H/337H/340H/GGR304H/
307H/374H/376H/379H/479H or

Biological Processes: BIO310H/312H/330H/
332Y/337H/361H/405H/420H/464H/CHM231H/
361H,362H/GGR305H

The selection of courses and program stream must be made in consultation with one of the program coordinators.

NOTE: Students are recommended to take CSC108H/148H by the end of year IV. To accomplish this, courses for Distribution Requirements may need to be selected from 200 level courses.

Special Recommendation: It is strongly recommended that students in this program consider taking GGR234H and GGR345H/393H as their Social Science distribution requirement, since these are particularly relevant to the program.

Environmental Management (B.A.)

Faculty Coordinator: Professor A. Grima,
(Geography) - (905) 828-3865; (416) 978-
3486; e-mail: lino.grima@utoronto.ca

Environmental Management provides students enrolled widely through the social sciences and humanities with opportunities to focus on environmental issues and public policy. Awareness of the political, social and legal framework in which environmental management occurs is fundamental to dealing with the challenges and opportunities of living in an increasingly urbanized world.

Specialist Program S14255

11.0 full course equivalents are required, including at least 4.0 at the 300/400 level of which at least 1.0 must be at the 400 level.

1. All of the requirements for the Environmental Management Major Program; that is: 8.0 full course equivalents, as follows:

First Year: ENV100Y;ECO100Y/POL100Y;
Second Year: BIO205H;GGR217Y,234H,
261H/276H/STA220H

Higher Years:

a) GGR393H/493H

b) 0.5 full course equivalent from
ERS215H;GGR304H,305H,307H,309H,
310H,315H,316H;GGR338H,341H,
352H,362H,372H,376H,377H,379H,
407H,408H

c) 0.5 full course equivalent from
BIO301H,316H,330H,332Y,337H,405H,
464H;ENV317H

d) 1.5 full course equivalents from
ANT241Y;ENG259Y;ECO373H;GGR228Y,
321H,329H,333H,334H,340H,341H,
345H,346H,349H,361H;HIS318Y;
MGT393H,394H;PHL271H,274H,370H;
POL317Y

2. **Higher Years:** 2.5 additional full course equivalents from courses listed in sections b, c, or d above.

3. **Fourth Year:** ENV400Y

Major Program M14255

8.0 full course equivalents are required, including at least 2.0 at the 300/400 level.

1. **First Year:** ENV100Y;ECO100Y/POL100Y
2. **Second Year:** BIO205H;GGR217Y,234H,261H/276H/STA220H
3. **Higher Years:**
 - a) GGR393H/493H
 - b) 0.5 full course equivalent from ERS215H;GGR304H,305H,307H,309H,310H,315H,316H,338H,341H,352H,362H,372H,376H,377H,379H,407H,408H
 - c) 0.5 full course equivalent from BIO301H,316H,330H,332Y,337H,405H,464H;ENV317H
 - d) 1.5 full course equivalent from ANT241Y;ENG259Y;ECO373H;GGR228Y,321H,329H,333H,334H,340H,341H,345H,346H,349H,361H;HIS318Y;MGT393H,394H;PHL271H,274H,370H;POL317Y
 - e) 0.5 FCE from courses listed in 3b), c) and d)

NOTE: Courses that are useful complements to the Environmental Management program include BIO302H,ECO200Y,202Y,360Y,ERS120H;GGR377H.

Environmental Science (B.Sc.)

Faculty Coordinators: Professor B. Murck (Earth Science) - (905) 828-5426
Professor D.S. Munro (Geography) - (905) 828-3929
Professor N.C. Collins (Biology) - (905) 828-3998

This program is designed to provide a broad scientific foundation for students interested in employment or advanced study in a variety of environmental fields. It familiarizes students with the structure and function of various types of natural and managed ecosystems and educates students about environmental problems and the conceptual and practical skills needed to develop and implement solutions.

Three areas of study are combined within the specialist program: Ecology, Geography and the Earth Sciences. Thus the focus is upon the interactions of living organisms with Earth, water and air.

Specialist Program S10615

12.0 full course equivalents are required including at least 4.0 at the 300/400 level of which at least 1.0 must be at the 400 level.

LIMITED ENROLMENT-Enrolment in the Specialist Program will be limited to students who have completed 4.0 full course equivalents with a CGPA of at least 1.85.

First Year: ENV100Y;MAT112Y/132Y/138Y/(CSC108H,148H);CHM140Y/PHY135Y/140Y

Second Year: BIO205H;ERS219H,222H;GGR217Y,234H. (BIO151Y is strongly recommended to increase your options in third year.)

Third Year:

1. (BIO360H,361H)/(STA220H,221H)
2. BIO301H/316H/ENV317H*/ERS325H/GGR319H/379H
3. 1.0 from BIO330H,332Y,337H,405H,418H*,464H
4. 1.0 from GGR304H,305H,307H,309H,310H,315H,316H,338H,375H,376H,377H,406H,407H,408H
5. 1.0 from ERS215H,217H,220H,319H,336H,337H,340H
6. Additional 0.5 from #2, 3, 4 or 5

Fourth Year: ENV400Y

*Offered in alternate years.

Major Program M10615

8.0 full course equivalents are required including at least 2.0 at the 300/400 level.

LIMITED ENROLMENT-Enrolment will be limited to students who have completed 4.0 courses with a CGPA of at least 1.50.

First Year: ENV100Y;MAT112Y/132Y/138Y/(CSC108H,148H)

Second Year: BIO205H;ERS219H,222H;GGR217Y,234H. (BIO151Y is strongly recommended to increase your options in third year.)

Third Year:

1. BIO360H/STA220H
2. BIO301H/316H;ENV317H*/ERS325H/GGR319H/379H
3. 1.0 from BIO330H,332Y,337H,405H,418H*,464H
4. 0.5 from GGR304H,305H,307H,309H,310H,315H,316H,338H,375H,376H,377H,406H,407H,408H
5. 0.5 from ERS215H,217H,220H,319H,336H,337H,340H

*Offered in alternate years.

Special Recommendation:

It is strongly recommended that students in the Environmental Science programs consider taking GGR334H/345H/393H as a part of their Social Science distribution requirement, since these are particularly relevant to the program. A relevant course to consider for the Humanities distribution requirement would be HIS318Y.

Exceptionality in Human Learning (B.A./B.Sc.)

Program Director: Professor S. E. Trehub, Room 3059 (by appointment), (905)828-5415
Program Advisor: Stuart Kamenetsky, Room 3055, (905)828-3958

This approved area of study is designed to provide a broad foundation for students who may have a vocational, academic, and/or civic interest in issues concerning children and adults who have disabilities and/or who are gifted.

Interested students might include:

- a) those who at a later stage may wish to pursue more advanced work in psychology, special education, rehabilitation, social work, group home management, adult retraining, etc., or study in areas related to hearing or visual impairment, learning disabilities, developmental delay, physical disability, or related fields.
- b) those wanting to know more about the Psychology, Sociology and Biology of exceptional individuals, particularly as these become issues of public policy.

Students admitted after September 1992 can elect to follow the program requirements in place at the time they declare their program or at the time they request to graduate. Students are encouraged to have their programs approved by the Program Advisor. Students who wish to enrol in Psychology courses at the St. George Campus to fulfill program requirements must consult the Program Advisor. Students who intend to pursue graduate studies in Psychology, Speech Pathology or related areas are advised to include PSY201H and PSY202H in their course selections.

Specialist Program S14405 (B.A.) S18835 (B.Sc.)

13.0 full course equivalents are required including at least 3.5 300/400 level courses and 1.5 400 level courses.

LIMITED ENROLMENT - Enrolment in this program is limited to students who have (a) 4.0 completed courses, (b) a grade of at least 75% in PSY100Y, (c) successful completion of 1.0 FCE from ANT100Y/SOC101Y/BIO151Y/(202H/206H)/(203H/207H)/204H/205H, and (d) a minimum CGPA of 2.70. Meeting the minimum grade requirements does not guarantee admission. Students not initially meeting these requirements may be admissible after meeting the second-year requirements outlined in the Erindale Psychology Handbook.

First Year:

- 1) PSY100Y; SOC101Y/ANT101Y (B.A. Specialists) **OR** PSY100Y; BIO151Y/ 1.0 FCE from BIO202H/206H,203H/207H,204H,205H (B.Sc. Specialists)

Higher Years:

- 2) PSY210H,213H,442Y
 - 3) 1.0 FCE from the following:
PSY201H,202H,240H,270H,280H,290H,295H
 - 4) 3.0 FCE from the following:
PSY311H,312H,315H,318H,319H,325H,331H,340H,341H,374H,385H,393H
 - 5) at least 0.5 FCE from the following:
PSY400Y,403H,404H,405H,406H,410H,415H,440H,495H
 - 6) 2.0 FCE from one of the following lists:
 - a) ANT203Y,204Y,209Y,212Y,241Y,304H,330H,332Y,334Y,339H,343H,347H,434H,439H (B.A. Specialists)
 - b) SOC210Y,211H,245Y,301Y,303H,305Y,307H,311Y,325Y,326H,327Y,330H,365Y (B.A. Specialists)
 - c) BIO202H/206H,203H/207H,204H,205H,304H,310H,315H,341H,352H,356H,370Y,422H,442H,443H,452H,464H,475H,477H;JBC372H;ANT203Y,330H,32Y,334Y,339H,434H;PSL221Y(G), 321Y(G) (B.Sc. Specialists)
 - 7) 2.5 additional FCE to be selected from the following (no more than 1.0 FCE from any one discipline):
 - ANT Any course in 6 a) not counted previously (B.A. Specialists)
 - SOC Any course in 6 b) not counted previously (B.A. Specialists)
 - BIO Any course in 6 c) not counted previously (B.Sc. Specialists)
- CHM240Y,341H,347H,360Y

ENG234H
HIS308Y,417Y
LIN100Y,200H,415H(G),
JAL253H,254H(G),355H(G),
JLP471H(G),
JLS474H(G)
PHL243H,244H,255H,267H,271H,272H,
274H,277Y,283H,290H,350H,355H
RLG105Y,309Y

Major Program M18835 (B.Sc.)

6.5 full course equivalents are required;
including at least 2.0 300/400 level courses

Note: No new students are being admitted into the B.A. Major Program in Exceptionality in Human Learning. Students currently in the Program should follow the requirements in place at the time they declared their Major.

LIMITED ENROLMENT - Enrolment in this program is limited to students who have (a) 4.0 completed courses, (b) a grade of at least 60% in PSY100Y, (c) successful completion of 1.0 FCE from BIO151Y/(202H/206H)/(203H/207H)/204H/205H, and (d) a minimum CGPA of 1.70. Students not initially meeting these requirements may be admissible after meeting the second-year requirements outlined in the Erindale Psychology Handbook.

First Year:

- 1) PSY100Y; 1.0 FCE from BIO151Y/(202H/206H)/(203H/207H)/204H,205H

Higher Years:

- 2) PSY210H,213H
- 3) 2.5 FCE from the following:
PSY311H,312H,315H,318H,319H,325H,
331H,340H,341H,345H,374H,385H,393H
- 4) 1.0 additional FCE from ANT203Y,330H,
332Y,334Y,339H,434H;BIO202H/206H,
203H/207H,204H,205H,304H,310H,315H,
341H,352H,356H,370Y,422H,442H,443H,
452H,464H,475H,477H;JBC372H;
PSL221Y(G),321Y(G)

Fine Art (History of Art) (B.A.)

Specialist Program S09085

12.0 full course equivalents are required.
At least 9.0 Art History courses (including core surveys FAH101Y,102Y,200Y,210Y, plus at least 3.0 full courses at the 300 or 400 level), one FAS course and 2.0 courses in French, German or Italian. No more than a total of 13.0 FAH and FAS full courses may be taken for credit towards the program.

In designing a curriculum students are advised to note the prerequisites and corequisites of many FAH courses. The following progression of courses is strongly recommended:

First Year: FAH101Y,102Y; 1.0 language course.

Second Year: FAH200Y, other FAH200/300 level courses; 1.0 language course.

Third Year: 4.0 full courses or their equivalent chosen from the 300 or 400 level to include 1.0 full course from the 400 level.

Fourth Year: Further FAH courses chosen preferably from the FAH300 and 400 levels.

NOTES:

1. Specialists or Majors in Art History or Art and Art History are strongly urged to include in their programs FAH101Y/102Y, 200Y and 210Y in this sequence.
2. Specialists in Art History are encouraged to take a half course in the history of modern architecture at the St. George campus.
3. Courses in other departments, especially East-Asian Studies, Near Eastern Studies, Middle East and Islamic Studies, may be substituted for up to 2.0 full FAH courses with permission of the Discipline Representative. **FAS courses may not be used as substitutes.**
4. It is strongly recommended that students acquire a reading knowledge of at least one of French, German, or Italian by the end of second year.
5. Course selections beyond the level of the core surveys should be made from at least two of the periods designated as Ancient, Mediaeval, Renaissance-Baroque, and Modern.
6. Students who wish to complete their programs at the St. George Campus must apply to the Department of Fine Art, where each application will be judged on an individual basis.

Major Program M09085

6.0 FAH courses of which 3.0 courses must be selected from the core surveys with no more than one survey from the first year (see Specialist Program) and an additional 2.0 from the FAH300 or 400 level courses.

NOTES:

1. Courses in other departments, especially East-Asian Studies, Near Eastern Studies, Middle East and Islamic Studies, may be substituted for up to 1.0 full FAH course with permission of the Discipline Representative. **FAS courses may not be used as substitutes.**
2. No more than a combination of 10.0 FAH and FAS full courses may be taken towards the program, of which no more than a total of 8.0 may be FAH.

Minor Program R09085

4.0 full course equivalents of which 3.0 must be from the core surveys and no more than 1.0 from first year. 1.0 full course must be from 300 or higher level.

Art and Art History (B.A.)

Specialist Program S07145

At least 7.0 FAS full course equivalents which must include the following courses: FAS143H, 145H, 146H, 147H, 232H, 248H; and 4.0 FAH full course equivalents are required. A minimum of 4.0 300/400 level full course equivalents, 1.0 of which must be at the 400 level, must be included.

The following progression of courses is strongly recommended:

First Year:

1. 1.0 FAH full course equivalent
2. 2.0 FAS full course equivalents from the following: FAS143H, 145H, 146H, 147H, 232H*, 248H*

Higher Years:

1. 3.0 full course equivalents FAH courses
2. Remaining FAS courses from FAS143H, 145H, 146H, 147H, 232H*, 248H*
3. Additional FAS courses to a total of at least 7.0 full course equivalents

NOTES:

1. No more than a combination of 15.0 FAH and FAS full courses will count towards the program.
2. 3.0 of the FAH courses must be from the core surveys (See Fine Art History - Specialist Program), only 1.0 of which can be from the 100 level.
3. **All 200, 300 and 400 level Fine Art Studio courses must be balloted.** Ballot forms and detailed instructions are available April 1st from the Fine Art Department, Room 227, North Building, Erindale College. Telephone (905) 828-3725 or from the Faculty of the Arts, Room C155, Sheridan College, 1430 Trafalgar Road, Oakville, Ontario, L6H 2L1. Telephone: (905) 845-9430, Ext. 2571.
4. *FAS232H is open to first year students, but must be balloted.
5. *FAS248H is open to first year students, but must be balloted.

Major Program M07145

At least 4.0 FAS full course equivalents which must include the following courses: FAS143H, 145H, 146H, 147H, 232H, 248H; and at least 3.0 FAH full course equivalents are required. A minimum of 2.0 300/400 level full course equivalents must be included.

The following progression of courses is strongly recommended:

First Year:

1. 1.0 FAH full course equivalent
2. 2.0 FAS full course equivalents from the following: FAS143H, 145H, 146H, 147H, 232H*, 248H*

Higher Years:

1. 2.0 full course equivalents FAH courses
2. Remaining FAS courses from FAS143H, 145H, 146H, 147H, 232H*, 248H*
3. Additional FAS courses to a total of at least 4.0 full course equivalents.

NOTES:

1. No more than a combination of 12.0 FAH and FAS full courses will count towards the program.
2. 2.0 out of the 3.0 FAH courses must be from the core surveys (See Fine Art History - Specialist Program), only one of which can be from the 100 level.
3. **All 200, 300 and 400 level Fine Art Studio courses must be balloted.** Balloting is the process by which students interested in taking Fine Art Studio courses are granted permission to enrol. Although these courses are open to all students, priority will be given to students in the Art and Art History program, as studio space is limited. Ballot forms and detailed instructions are available April 1st from the Fine Art Department, Room 227, North Building, Erindale College. Telephone (905) 828-3725 or from the Faculty of the Arts, Room C155, Sheridan College, 1430 Trafalgar Road, Oakville, Ontario, L6H 2L1. Telephone: (905) 845-9430, Ext. 2571.
4. *FAS232H is open to first year students, but must be balloted.
5. *FAS248H is open to first year students, but must be balloted.

Forensic Science (B.Sc.)

Major Program M02055

8.0 full course equivalents are required including at least 2.0 at the 300/400 level.

LIMITED ENROLMENT-Enrolment in the Forensic Science Major Program is permitted only after successful application. Candidates may apply to the Program Coordinator after they have:

1. Completed at least 4.0 full course equivalents including 1.0 in Chemistry and 1.0 in Mathematics or Computer Science
2. Successfully enrolled in an approved second Major (See "Notes")
3. Attained a minimum Cumulative GPA of 2.70.

First Year: CHM140Y;MAT112Y/132Y/138Y/(CSC108H,148H)

Second Year: BIO202H/(206H,215H),203H/207H,204H;FSC239Y;(STA220H,221H)/(BIO360H,361H)

Third Year: ANT334Y;BIO334H/338H

Fourth Year: FSC439Y

NOTES:

1. Students are reminded that any number of courses over 12.0 in a double major program can be counted for both majors.
2. For FSC Majors only, prerequisite for ANT334Y will be waived.
3. The Forensic Science Major Program requires enrolment in a second major. While these majors offer many options, the following guidelines are recommended:

- a) **ANT** majors with special emphasis on *forensic anthropology*:
First Year: ANT100Y
Second Year: ANT200Y,203Y,204Y,231H
Third Year: ANT318H,334Y
Fourth Year: ANT415Y,439Y

- b) **BIO** majors with interest in *forensic biology*:
First Year: BIO151Y;CHM140Y;MAT112Y/132Y/138Y/(CSC108H,148H)
Second Year: BIO202H/206H,203H/207H,204,205
For students with emphasis on *cell and molecular biology*:
Third Year: BIO315H,352H,370Y;JBC372H
Fourth Year: BIO452H,475H,477H
For students with emphasis on *whole organism biology*:
Third Year: BIO319H,325H,334H/338H,354H,356H
Fourth Year: BIO442H,464H

- c) **CHM** majors with special emphasis on *forensic chemistry*
First Year: CHM140Y;MAT112Y/132Y/138Y
Second Year: CHM211H,221H,231H,240Y
Third Year: CHM311H,347H,361H,391H
Fourth Year: CHM414H

- d) Other majors are possible, but must be approved by the Program Coordinator.
4. Applications for admission to the Forensic Science Major should be submitted by June 1, 1998, to Dr. J. Melbye, Room 227. Application forms are available during regular office hours from Teresa Cabral in Room 227.
 5. The Faculty selects 25 new candidates per year from about 100 qualified applications.

French Language and Literature (B.A.)

Specialist Program S12955

10.0 full course equivalents, including at least 4.0 300/400 level courses, 1.0 of which must be a 400 level course.

First Year: FRE180Y or equivalent

Second Year: FRE240Y,272Y/273Y;FSL282H,283H/280Y

Third/Fourth Years:

1. FSL382H and FSL383H
2. 5.0 FRE literature courses including
 - a) at least 1.0 FRE course in pre-1800 literature
 - b) at least 1.0 FRE course in post-1800 literature
 - c) at least 1.0 FRE course in Quebec literature
 - d) at least 1.0 400 level course

Major Program M12955

7.0 full course equivalents, including at least 2.0 300/400 level courses.

First Year: FRE180Y or equivalent

Second Year: FRE240Y,272Y/273Y;FSL282H,283H/280Y

Third Year: 3.0 FRE literature courses including

1. at least 0.5 FRE course in pre-1800 literature
2. at least 0.5 FRE course in post-1800 literature
3. at least 0.5 FRE course in Quebec literature

Course Categories:

Group A (French Linguistics):
FRE272Y,273Y,375Y,376H,378H,476H,489H

Group B (Literature until 1800):

FRE320Y,322Y

Group C (Literature after 1800):

FRE364Y,367H,368H

Group D (Quebec literature):

FRE312H,317H,434H

Group E (Teaching & Learning):

JFI225Y;FRE335H,345H

Group unspecified in Literature courses:

FRE435H,436H.

Breadth Requirement: FRE190Y

French Language and French Linguistics (B.A.)

Major Program M05255

7.0 full course equivalents, including at least 2.0 300/400 level courses.

First Year: FRE180Y or equivalent

Second Year: FRE240Y,272Y;FSL282H,283H/280Y

Third Year: 3.0 FRE Linguistics courses including at least 2.0 at the 300/400 level.

French Studies (B.A.)

Minor Program R11355

4.0 full course equivalents, in FRE/FSL, including at least 1.0 300/400 level course.

French and Italian (B.A.)

Combined Specialist S08155

14.0 full course equivalents are required. The program must include a minimum of 4.0 300/400 level full course equivalents (2.0 in French and 2.0 in Italian) and 1.0 full course equivalent at the 400 level (either in French or in Italian).

French

7.0 full course equivalents are required.

First Year: FRE180Y or equivalent

Higher Years:

1. FRE240Y
2. FSL282H,283H/280Y,382H,383H
3. 1.0 full course equivalent from Group A of the FRENCH program
4. 1.0 full course equivalent from Group B, C, or D of the FRENCH program.
5. 1.0 additional full course equivalent in French linguistics or literature.

Italian

7.0 full course equivalents are required.

First Year: ITA100Y/110Y. If students have already taken grade 12 or grade 13/OAC Italian, they automatically go to higher years and choose one extra course from the courses offered there.

Higher Years:

1. 2.0 courses from ITA200Y/210Y, 350Y,355Y,221Y,230Y,235Y
 2. ITA321Y
 3. 1.0 course from ITA324Y,372Y,390Y, 436Y
 4. 2.0 other ITA full course equivalents selected in consultation with the Italian Department.
-

Language Teaching and Learning: French and Italian (B.A.)

Specialist Program S10925

14.0 full course equivalents. The program must include a minimum of 4.0 300/400 level full course equivalents (2.0 in French and 2.0 in Italian), 1.0 full course equivalent at the 400 level (either in French or Italian), and a shared core introductory course JFI225Y, taught in English.

French

7.0 full course equivalents are required.

First Year: FRE180Y (or equivalent) or permission of the Department.

Higher Years:

1. JFI225Y;FRE240Y/272Y,280Y (or equivalent)
2. 3.0 additional full course equivalents, including 1.0 full course equivalent in Teaching and Learning (Group E)

Italian

7.0 full course equivalents are required.

First Year: ITA200Y/210Y (or equivalent) or permission of the Department

Higher Years:

1. JFI225Y,ITA321Y,350Y/355Y,396H,437H
2. 2.0 additional full course equivalents in Italian, only 1.0 of which can be chosen from the following: ITA232H,233H,234Y, 242Y,243Y,312Y,314Y,342Y,343Y

Language Teaching and Learning: French (B.A.)

Major Program M10565

7.0 full course equivalents, including at least 2.0 300/400 level courses.

First Year: FRE180Y

Second Year: FSL280Y (or equivalent), JFI225Y, recommended enrolment in either FRE240Y or FRE272Y

Third & Fourth Year: 3.0 further courses in French, at least 2.0 of which must be chosen from among the 300/400 series, and at least one of which must be in Teaching and Learning. (Group E)

Geographical Information Systems (B.Sc.)

Faculty Coordinator: Professor Ferenc Csillag (Geography), 905-828-3862

e-mail: fcs@eratos.erin.utoronto.ca

Geographical Information Systems (GIS) provides the opportunity to combine spatial information analysis and its management with a wide range of related disciplines. These include Geography, Geology, Biology, Physics, Environmental Science, Environmental Management and Computer Science. The curriculum serves students with interest in mapping, monitoring and modelling—and thus better understanding—of the earth surface, its resources, and its natural and social processes.

The Major in Geographical Information Systems is multidisciplinary, with a broadening field of options. Students are encouraged to take it in conjunction with a second Major program.

Major Program M03055

7.5 full course equivalents are required, including at least 2.0 at the 300/400 level.

- First Year:** ENV100Y; PHY135Y/140Y; MAT112Y/132Y/138Y; CSC108H/148H
- Second Year:** GGR217Y, 261H, 276H; MAT222H;
- Higher Years:** 1.5 full course equivalents from ERS336H; GGR321H, 337H, 362H, 372H, 463H, 488H; PHY237H

Minor Program R03055

4.0 full course equivalents are required, including at least 1.0 at the 300/400 level.

- ENV100Y; GGR261H, 276H
- 2.0 full course equivalents from ERS336H, GGR217Y, 321H, 337H, 362H, 372H; PHY237H

Geography (B.A.)

Faculty Coordinator: Professor Thomas F. McIlwraith (Geography) (905) 828-5314
e-mail: tmcilwra@eratos.erin.utoronto.ca

Specialist Program S16665

10.0 full course equivalents are required including at least 4.0 at the 300/400 level of which at least 1.0 must be 400 level.

- Geography courses required:

First Year: GGR117Y

Second Year: GGR215H/261H, 217Y, 218Y/228Y

Third Year: 4 half course equivalents out of the following: GGR310H, 315H, 319H, 329H, 340H, 359H, 372H, 375H.

Fourth Year: GGR417Y

- MAT112Y/132Y/138Y/PHL100Y/ (STA220H, 221H) or (for students who have an OAC Mathematics course) 1.0 full course equivalent from BIO, CHM, ERS, MAT or PHY.
- 2.0 full course equivalents from the list of GGR "non-science" courses, as described in the Geography Course Descriptions section of this Calendar.

Major Program M16665

7.0 full course equivalents are required, including at least 2.0 at the 300/400 level.

- Geography courses required:

First Year: GGR117Y

Second Year: GGR215H/261H, 217Y, 218Y/228Y

Third Year: 0.5 full course equivalent from the list of GGR "non-science" courses, as described in the Geography Course Descriptions Section of this Calendar and 3 half course equivalents out of the following: GGR310H, 315H, 319H, 329H, 340H, 359H, 372H, 375H.

- MAT112Y/132Y/138Y/PHL100Y/ (STA220H, 221H) or (for students who have an OAC Mathematics course) 1.0 full course equivalent from BIO, CHM, ERS, MAT or PHY.

Minor Program R16665

4.0 full course equivalents are required, including at least 1.0 at the 300/400 level.

- First Year:** GGR117Y
- Second Year:** GGR218Y/228Y
- 2.0 full course equivalents from the list of GGR "non-science" courses, as described in the Geography Course Descriptions section of this Calendar.

Geography (B.Sc.)

Faculty Coordinator: Professor D. Scott Munro (Geography) (905) 828-3929
e-mail: smunro@eratos.erin.utoronto.ca

Specialist Program S20705

12.0 full course equivalents are required including at least 4.0 at the 300/400 level of which at least 1.0 must be 400 level.

1. **First Year:** GGR117Y; MAT112Y/132Y/138Y/(CSC108H,148H)/(STA220H,221H)
Second Year: GGR215H/261H,217Y,218Y/228Y

Third Year: 4 half course equivalents out of the following: GGR310H,315H,319H,329H,340H,359H,372H,375H.

Fourth Year: GGR417Y

2. 2.0 full course equivalents including at least 0.5 at the 300/400 level from the list of GGR science courses as described in the Geography Course Descriptions section of this Calendar.
3. 2.0 full course equivalents from BIO, CHM, ERS, PHY.

Major Program M20705

7.0 full course equivalents are required including at least 2.0 at the 300/400 level.

First Year: GGR117Y; MAT112Y/132Y/138Y/(CSC108H,148H)/(STA220H,221H)

Second Year: GGR215H/261H,217Y,218Y/228Y

Third Year: 0.5 full course equivalent from the list of GGR Science Courses as described in the Geography Course Descriptions Section of this Calendar and 3 half course equivalents out of the following:

GGR310H,315H,319H,329H,340H,359H,372H,375H.

Minor Program R20705

4.0 full course equivalents are required, including at least 1.0 at the 300/400 level.

1. **First Year:** GGR117Y

Second Year: GGR217Y

2. 2.0 additional full course equivalents from the list of GGR Science courses as described in the Geography Course Descriptions section of this Calendar.

Geology (B.Sc.)

See ENVIRONMENT (Earth Science).

Geomatics (B.Sc.)

Faculty Coordinator: Professor Jack Young (Geography) (905) 828-3864

IMPORTANT NOTICE

Erindale College will no longer admit students wishing to qualify as Ontario Land Surveyors. Students who have enrolled in the Geomatics program (or in Surveying Science) not later than June 30, 1996, will have an opportunity to complete the program as intended, provided they complete all required courses by May, 1998.

Please contact Professor J.K. Young, Room 3110, South Building, or at (905) 828-3864.

The Program in Geomatics deals with the acquisition and management of information related to land. It includes land surveying, land management, land law, geodetic science and mapping.

Specialist Program S04055

12.0 full course equivalents are required, including at least 4.0 at the 300/400 level of which 1.0 must be at the 400 level.

- First Year:** ENV100Y; PHY135Y/140Y; MAT112Y/132Y/138Y
- Second Year:** GGR215H,216H,217Y,261H,276H; MAT222H; JGM291H
- Higher Years:** MAT and PHY requirements listed above must be complete for credit before starting the following courses:
 - GGR308H,320H,362H
 - 2.0 full course equivalents from ERS336H; GGR321H,337H,346H,372H,395H,423H,463H,488H; PHY237H; WRI205H
- Fourth Year:** GGR491Y/ENV400Y; JGM458H

NOTE 1: Geomatics may not be combined with the Major Program in Geographical Information Systems.

NOTE 2: Students wishing to qualify as cadastral land surveyors should take the following half courses to satisfy the Academic Experience Requirement Committee of the Association of Ontario Land Surveyors: GGR303H,341H,352H,353H,442H

German Language and Literature (B.A.)

Minor Program R21355

4.0 full course equivalents, including at least 1.0 300 level course, in German forming a coherent series, which must be approved by the Department before enrolment in the second year. Possible Minor programs include those in language and literature.

Minor Program R24535

In Business German

4.0 full courses or their equivalent.

1. GER370Y,470Y
2. Two other GER courses.

History (B.A.)

Specialist Program S06525

10.0 full course equivalents and a language requirement.

LIMITED ENROLMENT-Students may enrol in the Specialist Program in History after completing at least 4.0 courses, including 2.0 HIS courses with a mark of at least 70% in each.

First Year: A 100 level HIS course; in addition, students may take 1.0 200 series HIS course.

Higher Years:

- I. Additional HIS courses to a total of 10.0, meeting the following requirements:
 - A. At least 5.0 300/400 level HIS courses including 2.0 400 level HIS courses.
 - B. At least 1.0 course from each of three of the following divisions:*
 1. Asia/Africa/Latin America
 2. Canada and United States
 3. Europe
 4. Industry and labour history
 5. Peace and conflict history
 6. Social and cultural history
 - C. At least one pre-modern course*

- II. A reading knowledge of a language other than English, relevant to the student's program of study. Reading knowledge must be demonstrated by 2.0 university-level courses or by a special exemption examination to be set by the Department of History.

NOTE: Specialists may substitute non-HIS courses taught elsewhere in the Faculty for up to 3.0 of the HIS courses.

Major Program M06525

7.0 full course equivalents.

First Year: 1.0 100 level History course; in addition, students may take 1.0 200 level HIS course.

Higher Years: Additional HIS courses to a total of 7.0, meeting the following requirements:

1. 1.0 400 level HIS seminar.
2. 2.0 additional 300/400 level HIS courses.
3. 1.0 course from each of three of the following divisions:*
 - a. Asia/Africa/Latin America
 - b. Canada and United States
 - c. Europe
 - d. Industry and labour history
 - e. Peace and conflict history
 - f. Social and cultural history
4. 1.0 pre-modern course*

*The *History Handbook* identifies courses satisfying division requirements and pre-modern courses. It is available in April from the History Dept., Room 227, North Building, phone: (905) 828-3725.

NOTE: Majors may substitute non-HIS courses taught elsewhere in the Faculty for up to 2.0 of the HIS courses. These substitutes may be used to fulfill 1 through 4 of the Major program.

Minor Program R06525

4.0 full course equivalents.

4.0 HIS courses; at least 1.0 of which must be a 300/400 level course.

NOTE: Minors may substitute non-HIS courses taught elsewhere in the Faculty for up to 2.0 of the HIS courses.

History and English

See English & History

History and Political Science (B.A.)

Specialist Program S10455

14.0 full course equivalents.

LIMITED ENROLMENT-Enrolment in the Specialist Program in History and Political Science is limited.

1. Students enrolling at the end of first year (4.0 courses) must obtain a mark of at least 67% in 1.0 POL course and a mark of at least 70% in each of 2.0 HIS courses and a Cumulative Grade Point Average of 1.80.
2. Students enrolling at the end of second year (eight courses) must obtain a mark of at least 70% in each of 2.0 POL courses and a mark of at least 70% in each of 2.0 HIS courses and a Cumulative Grade Point Average of 2.00.

History

First Year: A 100 level HIS course; an additional HIS course at the 100 or 200 level.

Higher Years: Additional HIS courses to a total of at least 7.0 courses from at least two areas of study. These must include HIS262Y; at least 3.0 courses at the 300/400 level; and at least 1.0 pre-modern course.

2.0 HIS courses must correspond in area and theme to 2.0 of the POL courses chosen. (Consult the History [Handbook](#) for information about areas of study and pre-modern courses.)

NOTE: Specialists may substitute non-HIS courses taught elsewhere in the Faculty for up to 3.0 of the HIS courses.

Political Science

7.0 full course equivalents in POL, including at least 2.0 300/400 level courses of which 1.0 must be a 400 level course.

First Year: POL100Y

Higher Years:

1. POL200Y
2. 1.0 course from each of two of the fields listed under requirements for Political Science Specialist program (P. 66)
3. 3.0 additional POL courses.

Industrial Relations (B.A.)

Faculty Advisors:

Professor F. Reid (Economics)
Professor J. Kervin (Sociology)
Professor L. MacDowell (History)

Interest in the field of industrial relations has grown over time as the employment relationship has increased in complexity, partly due to new legislative initiatives in areas such as employment standards, human rights and pay equity. The Industrial Relations program is designed to enable students to focus on the study of the employment relationship and examine it from the perspectives of the disciplines of Economics, History, Sociology and Organizational Theory. The field of industrial relations encompasses a study of the nature of the institutions involved in the employment relationship and the practices and procedures governing the relationship. The intention is to provide undergraduate students with a theoretical background and a knowledge of current developments in the labour field that will serve as a basis for a career in administration of industrial relations or for further training at the graduate level. The program also provides valuable general training for individuals seeking employment in positions which require an understanding of industrial relations.

Interested students should consult

Mrs. P. Hynek,
Department of Economics,
Room 226, Kaneff Centre
Telephone: (905) 828-5404

Major Program M18825

LIMITED ENROLMENT - Enrolment in this program is limited to students who have a cumulative GPA of 2.00 and have completed 2.0 of the following courses: ECO100Y,244Y,SOC101Y,WDW260Y

7.0 full course equivalents are required including at least 2.0 at the 300 level.

1. ECO100Y,244Y,HIS313Y,SOC101Y
2. 3.0 additional courses to be selected from the following: At least 1.0 must be at the 300 level. No more than 2.0 may be selected from the same discipline: ECO361Y;SOC207Y,317Y,346Y*; WDW260Y/MGT(262H + 363H)**

NOTES:

1. *Students must ballot for 200+ level SOC courses.
2. **Students must ballot for 200+ level MGT courses and meet the Commerce Program G.P.A. requirement.

International Affairs (B.A.)

Faculty Advisor: Professor Gordon Anderson (Economics)

Interested students should contact Mrs. P. Hynek, Dept. of Economics, (905) 828-5404.

Specialist Program S13845

This program provides background and training in the combination of analytical and linguistic skills demanded of individuals who wish to work in the context of an increasingly globalised economy. A combination of courses are offered which allow the student to acquire full interactive capability in a chosen language whilst simultaneously studying institutional and theoretical issues pertaining to political, commercial and economic relationships between nations.

13.0 full course equivalents, at least 1.0 of which must be at the 400 level.

Limited Enrolment - Enrolment in this program is limited to students who have 63% in ECO100Y; one introductory language course and a GPA of 2.50.

The following 9.0 courses are required in the program: ECO100Y, MAT112Y/132Y/138Y, ECO202Y/208Y, ECO364H, 365H, POL208Y, 4.0 language courses in the same discipline.

3.0 from GGR325H, 365H, HIS311Y, POL302Y, 307Y, 312Y, 327Y, 340Y.

1.0 from ECO460H, MGT491H, a 400 level language course. The following 400 level St. George courses will also fulfill this requirement: ECO419H, 456H, 458H, 459H, POL454Y or a 400 level course from a cognate discipline approved by the Faculty Advisor.

Language components available at Erindale:
French: FSL121Y/FRE190Y, FRE180Y; FSL261Y/280Y, 366H, 383H.

Italian: ITA100Y/110Y, ITA200Y/210Y, ITA350Y/355Y, ITA371Y and/or 450Y or 1 other full course equivalent selected in consultation with and approved by the Italian Department.

Other St. George language programs must be approved by the Faculty Advisor and the Department concerned.

Italian (B.A.)

See also Cinema Studies

Specialist Program S25245

10.0 full courses are required including at least 3.0 300/400 level full courses and 1.0 400 level full course.

First Year: ITA100Y/110Y. If students have taken grade 12 or OAC Italian, they automatically go to higher years and choose one extra course from the courses offered there.

Higher Years:

1. 1.0 full course or equivalent from ITA200Y/210Y, 350Y, 355Y, 450Y
2. ITA321Y, 436Y (or equivalent)/324Y
3. 1.0 full course or equivalent from ITA324Y, 421H, 427H
4. 1.0 full course or equivalent from ITA327H, 372Y, 390Y, 395H
5. 4.0 other full course equivalents in ITA including those listed above, but only 1.0 film course (ITA243Y or 343Y) may be chosen.

Major Program M25245

7.0 full course equivalents are required including at least 2.0 300/400 level full courses.

First Year: ITA100Y/110Y. If students have already taken grade 12 or OAC Italian, they automatically go to higher years and choose one extra course from the courses offered there.

Higher Years:

1. 1.0 course from ITA200Y/210Y, 350Y, 355Y, 450Y
2. ITA321Y
3. 4.0 other full course equivalents in ITA including those listed above, but only 1.0 film course (ITA243Y or 343Y) may be chosen.

Minor Program R25245

4.0 ITA full course equivalents are required including at least 1.0 300/400 level full course.

Possible combinations:

- 2.0 language courses, ITA242Y/243Y, 342Y/343Y or
- 2.0 language courses, ITA312Y/313Y, 314Y/315Y or
- 4.0 consecutive language courses or
- 4.0 courses or equivalent selected in consultation with and approved by the Italian Department.

NOTE: Students intending to pursue graduate studies in Italian at the School of Graduate Studies in Toronto should take three full courses or equivalent covering three of the main periods of Italian literature (i.e., Middle Ages, the Renaissance, the 17th and 18th centuries, the modern period) and must obtain an overall average of at least 75% in their last two years of study.

Language Teaching and Learning: Italian (B.A.)

Major Program M12495

7.0 full course equivalents are required including at least 2.0 300/400 level full courses.

First Year: ITA100Y/110Y. If students have already taken grade 12 or OAC Italian, they automatically go to higher years and choose one extra course from the courses offered there.

Higher Years:

1. ITA200Y or ITA210Y (or equivalent or permission of the Department).
2. JFI225Y
3. ITA321Y
4. ITA396H and ITA437H
5. 2.0 additional full course equivalents in ITA, but only 1.0 film course (ITA243Y or 343Y) may be chosen.

Language Teaching and Learning: French and Italian

See Combined Specialist listed with French programs.

Italian and French

See French & Italian Combined Specialist

Logic (B.A.)

Faculty Advisor: Professor J. Brunning
Room 275
(905) 828-5349

Major Program M17365

6.0 full course equivalents are required.

1. CSC148H,364H (For students in the program, the prerequisite for CSC364H will be satisfied by the combination of CSC148H,MAT222H/248Y, and PHL344H)
2. MAT112Y/132Y/138Y,222H/248Y,309H
3. PHL245H,344H,345H
4. Three of PHL246H,346H,347H,351H, 356H

Management (B.A.)

Major Program M24315

8.0 full course equivalents are required to be taken with another Major, or two Minors, which can be in any area EXCEPT Commerce, Economics or Industrial Relations.

LIMITED ENROLMENT-Enrolment in this program is limited to students who meet the following criteria:

1. **Prerequisite courses**
MGM100Y(63%);ECO100Y(63%) in a minimum of 4.0 courses.
2. **Cumulative Grade Point Average (CGPA)**
Each year the Management Department sets a minimum required CGPA. This will vary from year to year and is based, in part, on supply and demand.
3. Applicants will be asked to provide further information about themselves, including their reasons for wishing to take the program and how they see it contributing to their education and career.

Application for admission to the program for September is normally made in February of that year. Contact Management Department for **dates**.

Enrolment in 200+ level courses that are unique to the Management Major is restricted to students who are registered in the Management Major program.

1. **First Year** (2.0 full courses):
MGM100Y
ECO100Y
2. **Higher Years** (6.0 full courses):
 - a) MGM200H,220Y,230H,290H
 - b) MGM362H,400H;MGT252H,371H
 - c) STA250H or equivalent
 - d) 1.0 FCE from MGM320H, 332H;MGT353H,363H,492H

NOTE:

1. The Management Major, **must** be taken with another Major, or two Minors. Students **cannot** combine the Management Major with the Major Program in Commerce, Economics, or Industrial Relations; or the Minor program in Economics; or the Specialist Program in Commerce and Finance (B.Com.).
2. **The Program requirements in effect at the time the students is admitted to the program must be met in order to fulfill the Degree requirements.**

Mathematical Sciences (B.Sc.)

Specialist Program S25115

12.5 full course equivalents are required.

First Year: CSC148H; MAT102H, 138Y; STA107H

Second Year: CSC260H/270H; MAT248Y, 258Y; STA250H, 257H

Third Year: MAT315H, 378H

Third & Fourth Years:

a) MAT309H, 311H, 334H, 344H, 368H

b) 1.0 full course equivalents at the 400+ level in MAT.

c) 2.0 additional full course equivalents at the 300+ level in APM/ACT/CSC/MAT/STA. Good choices for this requirement include CSC350H, 354H and STA302H

NOTES:

1. The combinations MAT(112Y, 232H) and MAT(132Y, 232H) may be substituted for MAT138Y.
2. At most two of the following courses may be used in partial fulfillment of requirement c) above: ACT240H, 247H, CSC228H, 238H, 258H, 260H, 270H, PHL245H

Major Program M25115

7.5 full course equivalents are required.

First Year: MAT102H, 138Y

Second Year: MAT248Y, 258Y

Higher Years: MAT309H, 311H, 315H, 334H, 344H, 368H, 378H, PHL245H/0.5 MAT courses at the 200+ level.

NOTE:

The combinations MAT(112Y, 232H) and MAT(132Y, 232H) may be substituted for MAT138Y.

Minor Program R25115

4.0 full course equivalents in MAT are required, including 1.0 full course equivalent MAT course at the 300+ level. PHL245H may be included.

Molecular Biology (B.Sc.)

Faculty Advisors:

Professor J.T. Westwood (Biology)

Rm. 3034, (905) 828-3894

Professor P.A. Horgen (Biology)

Rm. 3033, (905) 828-5424

Professor J.K. Reed (Chemistry)

Rm. 4045, (905) 828-3806

Professor S.D. Taylor (Chemistry)

Rm. 4056, (905) 828-5355

Molecular Biology is an interdisciplinary science that draws its major themes from biochemistry, cell biology and genetics. It is distinctive in its emphasis on the structure, chemistry and functions of nucleic acids and in that sense focuses on the biochemical basis of cellular genetics. Molecular Biology is also the cornerstone of contemporary biotechnology and provides some of the most successful experimental tools in medicine and agriculture. The Specialist Program reflects the interdisciplinary nature of the field by providing a rigorous background of core courses up to the end of the third year covering chemistry, biochemistry, cell biology and genetics. These courses are offered by the Biology and Chemistry Departments at the College. The program in the fourth year is largely open-ended providing flexibility for the student to design a course outline that fits his/her areas of interest.

LIMITED ENROLMENT - Enrolment in the Specialist Program will be limited to students who have completed 4.0 full course equivalents including CHM140Y (minimum grade of 65%), BIO202H/206H (minimum grade of 70%), and a minimum cumulative GPA of 2.50.

Specialist Program S12375

13.0* full course equivalents are required. (*12.5 full course equivalents are required if BIO202H was taken).

First Year: BIO202H/206H; CHM140Y;

MAT112Y/132Y/138Y; PHY135Y/140Y

Second Year: BIO203H/(207H, 215H);

CHM211H, 240Y; PHY235H/CHM221H;

STA220H/BIO360H

Third Year: BIO315H, 370Y; CHM347H, 361H,

362H, 371H; JBC372H

Fourth Year: BIO475H, 477H** plus 1.5 of: BIO341H, 452H, 481Y; CHM461H; BCH421H(G), 425H(G), 430H(G); MGB450H(G)

**In the event that BIO477H is not offered during the 4th year of a student's studies, students must take BIO475H plus 1.5 FCE from the list above. In such a year, MGB420H(G) may be taken as 0.5 of the 1.5 optional FCE.

One or more of the 200 level BIO courses may be taken in Year 1.

Students intending to continue into Graduate Studies should consider including a course in independent research in Year 4.

Peace and Conflict Studies (B.A.)

NOTE: Starting in 1997-98, no new students were admitted to this program at Erindale. This program is available at the St. George Campus.

Students who enrolled in Peace and Conflict Studies Major Program in 1996-97 or earlier should consult with Professor Douglas Campbell, (905) 828-5317, regarding arrangements for completing their program.

Philosophy (B.A.)

Specialist Program S02315

9.0 full course equivalents in Philosophy, at least 4.0 courses at the 300/400 level including at least 1.0 at the 400 level, are required. The program must include the following courses:

1. PHL200Y,210Y,307H
2. PHL245H,345H
3. PHL277Y.

In addition, it is strongly recommended that students begin their study of Philosophy with a 100 level course. A student's program must be approved by the staff Specialist Coordinator. This program will normally be established by the end of the student's second year and confirmed at registration in subsequent years.

Major Program M02315

7.0 full course equivalents in Philosophy, at least 2.0 courses at the 300/400 level, are required. The program must include the following courses:

1. PHL200Y,210Y
2. PHL245H
3. PHL277Y.

In addition, it is strongly recommended that students begin their study of Philosophy with a 100 level course. A student's program must be approved by the staff Specialist coordinator. This program will normally be established by the end of the Student's second year and confirmed at registration in subsequent years.

Minor Program R02315

4.0 full course equivalents in Philosophy, including at least 1.0 at the 300/400 level, are required.

Philosophy, Political Science and Economics (B.A.)

Specialist Program S01015

LIMITED ENROLMENT-Enrolment in this program is limited.

Students enrolling at the end of first year (4.0 courses) must obtain:

- (1) a mark of at least 67% in 1.0 POL course and at least 63% in ECO100Y, and a minimum Cumulative Grade Point Average of 1.80.
OR
- (2) a mark of at least 67% in 1.0 POL course and at least 50% in ECO100Y, and a minimum Cumulative Grade Point Average of 2.50.

Students enrolling at the end of second year (8.0 courses) must obtain:

- (1) a mark of at least 70% in each of 2.0 POL courses and at least 63% in ECO100Y, and a minimum Cumulative Grade Point Average of 2.00.
OR
- (2) a mark of at least 70% in each of 2.0 POL courses and at least 50% in ECO100Y, and a minimum Cumulative Grade Point Average of 2.50.

15.0 full course equivalents are required including at least 4.0 at the 300/400 level of which at least 1.0 must be at the 400 level.

This is a combined specialist program in the major disciplines: Philosophy, Political Science and Economics. The program must include an area of major study to be selected from (A) and two areas of minor study to be selected from (B).

(A) Students must choose one of the following for their major area of study (1.0 FCE at the 400 level must be included from this area):

Economics:

ECO100Y;MAT112Y/132Y/138Y

ECO200Y,202Y,322Y

Either ECO220Y + 1.0 additional ECO course at the 300+ level OR ECO303Y + 323Y

OR

Philosophy:

PHL210Y,245H,271H,277Y,365H,375H,370H

1.5 additional PHL courses at the 200+ level including at least 0.5 at the 300 level

OR

Political Science:

POL200Y,320Y,309Y

3.0 additional POL courses, including no more than 1.0 at the 100 level, and including at least 1.0 course from two of the fields listed under the requirements for the Political Science Specialist program. (P. 66).

(B) Students must choose two of the following minor areas (excluding the discipline selected for the major area of study):

Economics:

ECO100Y;MAT112Y/132Y/138Y

ECO200Y,202Y,322Y

OR

Philosophy:

PHL245H,271H,277Y,370H,375H

1.0 additional PHL course at the 200+ level

OR

Political Science:

POL200Y,320Y,309Y

1.0 additional POL course at the 200+ level

Physical Science (B.Sc.)

Consult Department of Physics

Specialist Program S12605

13.5 full course equivalents are required including at least 3.0 at the 300+ level and 1.0 at the 400 level.

First Year: PHY135Y(minimum of 70% or P.I.)/PHY140Y;CHM140Y;MAT102H,(112Y,232H)/(132Y,232H)/138Y (recommended),222H;(CSC148H recommended)

Second Year: PHY224H,241H,245H;PHY235H/237H/AST252H/CHM211H/

*ERS337H/**GGR217Y;CHM221H;MAT258Y

Third Year: PHY324H,341H,345H;JCP321H,322H;MAT311H;(CHM311H,391H)/(MAT334H,368H)

Fourth Year: (PHY424H,443H,444H;[472H/473H])/(CHM485H,414H;+1.0 300/400 level full course equivalent in Physics or Chemistry.)

*requires ERS120H/ENV100Y

**requires GGR117Y/ENV100Y

Physics (B.Sc.)

Specialist Program S19445

NOTE: Starting in 1997-98, no new students were admitted to this program. Students should consider the replacement Specialist Program in Physical Science S12605. Students who enrolled in Specialist Program S19445 in 1996-97 or earlier should consult with the Department.

Major Program M19445

7.5 full course equivalents are required including at least 2.0 at the 300/400 level.

First Year: PHY135Y(minimum of 70% or P.I.)/PHY140Y (minimum of 60% or P.I.);MAT102H,(112Y,232H)/(132Y,232H)/138Y

Second Year: PHY224H,(PHY235H/237H),241H,245H;MAT212H/258Y

Third/Fourth Year: PHY324H,341H,345H,JCP321H, and 0.5 FCE from PHY443H*,444H,JCP322H,MAT311H

*requires MAT311H as corequisite

Minor Program R19445

4.0 full course equivalents are required including at least 1.0 at the 300/400 level.

First Year: PHY135Y(minimum 70% or P.I.)/PHY140Y(minimum of 60% or P.I.)

Second Year: PHY224H,241H,245H

Third/Fourth Year: JCP321H and 1.0 FCE from PHY235H,237H,341H,*443H,444H,JCP322H

*requires MAT311H as corequisite

Note: Students interested in an Honours degree, specializing in Physics, and who have completed with good standing PHY135Y/140Y;CHM140Y;MAT(112Y,232H)/(132Y,232H)/138Y(preferred), 222H, and 1.5 FCE in other 100 or 200 level Erindale courses, should consult with the Department and consider enrolling in the Physics Specialist program (S19441) on the St. George Campus of the University.

Physiology (B.Sc.)

Specialist Program S04825

13.5 full course equivalents are required, including at least 5.0 at the 300/400 level, of which 1.0 full course must be at the 400 level.

LIMITED ENROLMENT - Enrolment in this program is limited to students who have completed 4.0 courses, including BIO204H with a grade of 70%, and a cumulative grade point average of 2.50.

First Year:

1. BIO151Y;CHM140Y;MAT112Y/132Y/138Y
2. 1.0 FCE from the following: CLA201H; CSC108H,148H;ENV100Y;ERS120H; PHY135Y/140Y,235H;PSY100Y; WRI203H,301H
3. Students are encouraged to take one of BIO202H/206H,204H,205H in their first year.

Second Year:

The remainder of BIO202H/206H,203H/207H,204H,205H,215H;CHM240Y

Third and Fourth Years:

1. BIO304H,310H,312H,360H
2. At least 2.0 FCE from: BIO354H,361H, 410H,420H*,434H,481Y;CHM361H, 362H;JBC372H;PSY290H,395H
3. 2.0 additional BIO courses

*Offered in alternate years.

- c) International Relations - POL208Y, 312Y,327Y,328Y,340Y,486Y
- d) Public Policy and Public Administration - POL209Y,317Y.

For field designation of other courses, see the Department.

3. 4.0 additional POL courses
4. *Recommended:* ECO100Y.

Major Program M20155

7.0-8.0 POL full full course equivalents (to include at least 2.0 300/400 level courses).

LIMITED ENROLMENT-Students enrolling at the end of first year (4.0 courses) must obtain a CGPA of at least 1.80 and a mark of at least 62% in 1.0 POL course. Students applying to enrol after second year (8.0 courses) must obtain a CGPA of at least 2.00 and a mark of at least 65% in each of 2.0 POL courses.

First Year: POL100Y

Higher Years:

1. POL200Y
2. 1.0 full course from each of two of the fields in #2. of the Specialist Program
3. 3.0 additional POL courses

Minor Program R20155

4.0 POL full courses (to include at least 1.0 300/400 level course and no more than 1.0 at the 100 level).

Political Science (B.A.)

Enrolment in Political Science Specialist, Major and Combined Specialist programs is limited.

Specialist Program S20155

10.0-12.0 POL full course equivalents (to include 4.0 300/400 level courses of which at least 2.0 must be 400 level courses).

LIMITED ENROLMENT-Students enrolling at the end of first year (4.0 courses) must obtain a CGPA of at least 1.80 and a mark of at least 67% in 1.0 POL course. Students applying to enrol after second year (8.0 courses) must obtain a CGPA of at least 2.00 and a mark of at least 70% in each of 2.0 POL courses.

First Year: POL100Y

Higher Years:

1. POL200Y,320Y
2. 1.0 full course from three of the following fields:
 - a) Comparative Politics (Developing) - POL201Y
 - b) Comparative Politics (Industrial) - POL203Y,204Y,205Y,300Y,302Y,309Y, 322Y,463H,464H,465Y

Political Science and Economics

See Economics and Political Science

Political Science and History

See History and Political Science

Professional Writing

Faculty Coordinator: J. Killoran
Room K210, Kaneff Centre - (905) 828-3919;
email: jbkilior@credit.erin.utoronto.ca

The term "Professional Writing" refers to those documents written by business personnel, scientists, technologists, and documentation specialists. Among these forms are reports, proposals, journal articles, newsletters, manuals, memoranda, letters and legislation. During the course of the program, students are encouraged to explore the application of computer technology to the design of these documents.

Students from all disciplines of study can expand their career options by taking a Minor program in Professional Writing. Course descriptions are listed under "Writing, Professional." See Section 9.

Minor Program R13025

4.0 FCE required including 1.0 FCE at the 300/400 level.

1. 2.0 or 3.0 FCE from WRI203H/205H/301H/303H/305H/310H/315H/390H/391H/ENG100H/ERI100H/PHL247H.
2. 1.0 or 2.0 FCE from a list of Designated Writing-Intensive Courses (DWI).

Designated Writing Intensive (DWI) courses are discipline based courses that focus attention on writing issues in the subject as well as the subject's content. DWI courses include attention to the particular issues and conventions of writing in the discipline. DWI courses include support for writing development. In some courses, students may choose whether or not they wish to designate a particular course as writing intensive.

The list of DWI courses will be determined according to criteria specified by the Academic Affairs Committee. Watch for the list in the Erindale *Timetable and Registration Instructions* booklet available in April.

Psychology (B.Sc.)

Specialist Program S11605

At least 10.0 full course equivalents in Psychology are required. A single course can be used to satisfy only one program requirement.

LIMITED ENROLMENT - Enrolment in this program is limited to students who have (a) 4.0 completed courses, (b) a grade of at least 75% in PSY100Y, and (c) a minimum CGPA of 2.70. Students not initially meeting these requirements may be admissible after meeting the second-year requirements outlined in the Erindale Psychology Handbook.

First Year:

- 1) PSY100Y

Second Year:

- 2) (PSY201H,202H)/ECO220Y/227Y/(STA220H,221H)/(BIO360H,361H)
- 3) 2.5 FCE from the following courses : 0.5 FCE must be taken from each of the following groups and one additional 0.5 FCE from groups a) or b)
 - a) Biological Bases of Behaviour: PSY252H,290H,295H

- b) Cognitive/Learning/Perception: PSY260H,270H,280H
- c) Social/Personality/Abnormal: PSY220H,230H,240H
- d) Developmental: PSY210H,213H

Third year:

- 4) One laboratory course from the following: PSY319H,329H,379H,399H
- 5) 2.5 FCE from the following courses: 0.5 FCE must be taken from each group:
 - a) Biological Bases of Behaviour: PSY318H,393H,395H,397H,398H; BIO304H,310H,318Y
 - b) Cognitive/Perception: PSY312H,315H,374H,385H,393H,397H
 - c) Developmental/Abnormal/Social/Personality: PSY311H,312H,315H,318H,320H,325H,332H,340H,341H,345H

Fourth Year:

- 6) PSY400Y/403H/404H/405H/406H
- 7) 0.5 FCE from the following: PSY402H,410H,415H,420H,430H,440H,471H,480H,490H,495H;BIO418H,434H
- 8) Additional 1.5 FCE at the 300/400 level for students who do not take PSY400Y and 1.0 FCE for students who do. These can be selected from any of the above courses not used to fulfill other requirements or from the following: PSY305H,331H,442Y

Major Program M11605

6.5 full course equivalents in Psychology are required.

LIMITED ENROLMENT - Enrolment in this program is limited to students who have (a) 4.0 completed courses, and (b) a grade of at least 60% in PSY100Y. Students not initially meeting these requirements may be admissible after meeting the second-year requirements outlined in the Erindale Psychology Handbook.

First Year:

- 1) PSY100Y

Higher Years:

- 2) PSY201H/209H/ECO220Y/227Y/STA220H/BIO360H/SOC300Y (Students enrolled in both the Psychology and either Crime and Deviance or Sociology Major programs may not take PSY209H).
- 3) 2.5 FCE from the following courses : 0.5 FCE must be taken from each group.
 - a) Biological Bases of Behaviour: PSY252H,290H,295H
 - b) Cognitive/Learning/Perception: PSY260H,270H,280H
 - c) Social/Personality/Abnormal: PSY220H,230H,240H
 - d) Developmental: PSY210H,213H

- 4) 1.5 FCE from the following courses: 0.5 FCE must be taken from each group:
 - a) Biological Bases of Behaviour:
PSY318H,393H,395H,397H,398H;
BIO304H,310H,318Y
 - b) Cognitive/Perception:
PSY312H,315H,374H,385H,393H,
397H
 - c) Developmental/Abnormal/Social/
Personality:
PSY311H,312H,315H,318H,320H,
325H,332H,340H,341H,345H
- 5) 1.0 additional FCE in Psychology. At least 0.5 must be at the 300/400 level

NOTES:

- 1) Enrolment in Psychology Specialist and Major programs is limited. Students who do NOT earn a sufficiently high grade in PSY100Y to be eligible for the Psychology Specialist or Major programs may repeat PSY100Y *once* as an 'extra' and may become admissible if all grade requirements are met. Alternatively, such students may reapply when they satisfy the second-year requirements outlined in the Erindale Psychology Handbook.
- 2) **BALLOTING** - Enrolment in all Winter Session 200+ level Psychology courses except PSY201H,202H,400Y,403H,404H, 405H, AND 406H is based on the results of balloting during the spring of the previous academic year. Priority is given to students in Specialist and Major programs in Psychology, Exceptionality in Human Learning or Animal Behaviour. Spaces are allotted on the basis of CGPA. Highest priority is given to students enrolled in one of the Specialist Programs noted above.
- 3) **Many Psychology courses have been renumbered. Students should ensure that they do not repeat a course they have already taken. If in doubt, consult the Program Advisor.**
- 4) Students admitted after September 1992 can elect to follow the program requirements in place at the time they declare their program or at the time they request to graduate. Students are encouraged to have their programs approved by the Program Advisor. Students who wish to enrol in Psychology courses at the St. George Campus to fulfill program requirements must consult the Program Advisor.

Religion (B.A.)

Specialist Program S01515

10.0 RLG full course equivalents are required.

First Year: RLG100Y

Higher Years:

1. RLG200Y(G)
2. 4.0 300/400+ level courses (including 1.0 at the 400 level)
3. 4.0 other courses, no more than 2.0 of which may be from cognate disciplines
4. Course selection must ensure that more than one religious tradition is studied (RLG100Y does not fulfill this requirement).
5. Course selection must ensure depth of study and focus in one area or stream of specialization.
6. A RLG Faculty Advisor must be chosen to assist in designing a coherent program and to review annually the student's course selections.

NOTE: Typical areas of specialization include: Religions of the West; Religions of the East; Scriptures; Philosophy of Religion. For Erindale students, specialist and major programs in Religion and Society can be completed in their entirety on the Erindale campus. For details of these programs, consult a RLG Faculty Advisor or the Departmental handbook.

Major Program M01515

6.0 RLG full course equivalents are required.

First Year: RLG100Y

Higher Years:

1. RLG105Y/242Y/a St. George equivalent course on a religious tradition or methods in the study of religion;
2. 4.0 other courses, 1.0 of which may be from a cognate discipline and 2.0 of which must be at the 300/400 level.
3. A RLG faculty advisor must be chosen to assist in designing a coherent program and to review annually the student's course selections.

Minor Program R01515

4.0 RLG full course equivalents are required.

First Year: RLG100Y

Higher Years:

1. 1.0 300/400 level course
2. 2.0 other courses, neither of which may be from cognate disciplines.

Sociology (B.A.)

Specialist Program S10135

LIMITED ENROLMENT - Students applying to enrol after having completed 4.0 full course equivalents must obtain a CGPA of at least 1.80 and a mark of at least 62% in 1.0 SOC course. Students applying to enrol after having completed 8.0 full course equivalents must obtain a CGPA of at least 2.0 and a mark of at least 65% in each of 2 SOC courses (full or half).

- 1. NUMBER OF COURSES REQUIRED:**
9.0 SOC full course equivalents are required.
- 2. GENERAL REQUIREMENTS:**
SOC101Y, 200Y (to be taken in 2nd year), 300Y, and 314Y.
- 3. COURSE LEVEL REQUIREMENT:**
Of the 9.0 courses at least 3.0 SOC courses must be at the 300/400 level AND 1.0 full course equivalent must be a SOC course at the 400 level.

Major Program M10135

LIMITED ENROLMENT - Students applying to enrol after having completed 4.0 full course equivalents must obtain a CGPA of at least 1.80 and a mark of at least 62% in 1.0 SOC course. Students applying to enrol after having completed 8.0 full course equivalents must obtain a CGPA of at least 2.0 and a mark of at least 65% in each of 2 SOC courses (full or half).

- 1. NUMBER OF COURSES REQUIRED:**
6.0 SOC full course equivalents are required.
- 2. GENERAL REQUIREMENTS:**
SOC101Y, 200Y (to be taken in 2nd year), and 314Y.
- 3. COURSE LEVEL REQUIREMENT:**
Of the 6.0 courses at least 2.0 SOC courses must be at the 300/400 level.

Minor Program R10135

- 1. NUMBER OF COURSES REQUIRED:**
4.0 SOC full course equivalents are required.
- 2. GENERAL REQUIREMENTS:**
SOC101Y, plus 3.0 SOC full course equivalents.
- 3. COURSE LEVEL REQUIREMENT:**
Of the 4.0 courses 1.0 SOC course must be at the 300/400 level.

IMPORTANT NOTES FOR SOCIOLOGY PROGRAMS

BALLOTING: Admission to all Winter session Sociology Courses (EXCEPT SOC101Y and Independent Research Courses) offered at UTM will be based on the results of balloting during the spring and summer of the previous academic year. Balloting ranks students giving precedence to students registered at UTM, currently in a Sociology or related program, as well as to students in their final year. Students are also ranked by CGPA. Students NOT registered at UTM, or NOT in a Sociology or related program are less likely to gain admission to the Sociology courses offered at UTM.

SOC200Y: Students majoring or specializing in Sociology should enrol in SOC200Y in the SECOND YEAR or immediately after having taken SOC101Y.

SOC300Y EQUIVALENTS FOR

SPECIALISTS ONLY: For Sociology Specialists required to take SOC300Y, beginning 1998-99, the following courses are the only acceptable equivalent: STA220H, 221H. You must take BOTH half courses. In NO other circumstances may students count the above-noted courses towards a Major or Minor in Sociology.

PREREQUISITES: Students MUST have completed the prerequisite course(s) BEFORE registering in any 200, 300, or 400 level Sociology course. The Department reserves the right to remove any student at any time during the academic year who did not complete the appropriate prerequisite.

Statistics, Applied (B.Sc.)

Specialist Program S15405

10.5 to 11.5 full course equivalents are required.

- MAT102H, (112Y, 232H)/(132Y, 232H)/138Y
- CSC148H, (260H/270H)
- STA(220H, 221H, 257H)/(250H, 257H)/(ECO220Y, STA257H)/ECO227Y
- MAT248Y, 258Y, 378H, 388H/334H
- STA302H, 402H, 412H, 437H
- 1.5 full course equivalents from STA301H/312H/313H/322H/347H/457H
- 0.5 additional courses from MAT334H/344H/CSC350H/354H/STA107H or any other STA course in the 300/400 level.

Major Program M15405

6.5 to 8.0 full course equivalents are required.

1. MAT(112Y,232H)/(132Y,232H)/138Y
2. CSC108H/148H/260H
3. MAT222H/248Y
4. STA(220H,221H,257H)/(250H,257H)/
(ECO220Y,STA257H)/ECO227Y,
STA302H,STA402H
5. Four additional 0.5 courses from
STA107H/301H/312H/313H/322H/347H/
412H/437H/457H, or any other STA course
in the 300/400 level
6. additional 0.5 course in the 300/400 level
from STA/CSC/MAT.

Minor Program R15405

4.0 full course equivalents are required.

1. MAT112Y/132Y/138Y
2. STA(220H,221H,257H)/(250H,257H)/
(ECO220Y,STA257H)/ECO227Y
3. 2.0 additional full STA course equivalents
(including at least 1.0 full course
equivalent in the 300/400 level).

Theatre and Drama Studies

See Drama

Urban Studies (B.A.)

Faculty Co-ordinator: Professor G.H.K. Gad
(Geography) - (905) 828-3932

NOTE: Starting in 1995-96, no new students were admitted to this program. Students interested in Urban Studies should look under Environmental Management (B.A.).

Students who enrolled in the Urban Studies Major Program in 1994-95 or earlier should consult with Professor Gad regarding arrangements for completing their program.

Women's/Gender Studies (B.A.)

Faculty Advisor: Professor M. Goldman
(905) 828-3753

Women's/Gender Studies focuses on questions of gender in every field of study, and particularly on the perspectives of that gender which has had less influence on past scholarship, namely women. Such a focus, which crosses disciplinary lines, can be carried into many areas, such as Anthropology, Literature, Art, History, Linguistics, Philosophy, Politics, Psychology, Religion, and Sociology.

Major Program M14435

LIMITED ENROLMENT Students enrolling at the end of first year (4.0 FCE) must obtain a CGPA of at least 1.80. Students applying to enrol after second year (8.0 FCE) must obtain a CGPA of at least 2.00 and a mark of at least 65% in ERI 200Y.

7.0 FCE are required, including at least 2.0 at the 300+ level.

First Year: 2.0 FCE from the following list (N.B. students should choose their first- and second-year courses with a view to satisfying the prerequisites required for courses to be taken later in the program):

ANT100Y;ENG110Y/120Y/130Y/140Y;
HIS102Y;PHL100Y/101Y;PSY100Y;
RLG100Y/105Y;SOC101Y

Second, Third and Fourth Years: ERI200Y plus 4.0 FCE from the following:
ANT204Y,330H,343H;CLA204H/205Y;
DRE120Y;ENG233Y;ERI300Y,410H/411Y;
FAH435H;HIS308Y,326Y,360Y,441H;ITA232H/
233H;JAL355H;PHL243H,267H,277Y;
RLG225H;SOC202Y,214Y,215Y,301Y,
304Y,365Y

Minor Program R14435

4.0 FCE are required, including 1.0 at the 300+ level.

First Year: 1.0 FCE from the following list (N.B. students should choose their first- and second-year courses with a view to satisfying the prerequisites required for courses to be taken later in the program):

ANT100Y;ENG110Y/120Y/130Y/140Y;
HIS102Y;PHL100Y/101Y;PSY100Y;
RLG100Y/105Y;SOC101Y

Higher Years: ERI200Y plus 2.0 FCE from the following: ANT204Y,330H,343H;
CLA204H/205Y;DRE120Y;ENG233Y;
ERI300Y,410H/411Y;FAH435H;HIS308Y,
326Y,360Y,441H;ITA232H/233H;JAL355H;
PHL243H,267H,277Y;RLG225H;SOC202Y,
214Y,215Y,301Y, 304Y,365Y

Writing, Professional

See Professional Writing

International and Canadian Student Exchanges

Student Exchange Officer: J. Olsen
(416) 946-3138

Under the direction of the Director for International Liaison and Exchanges, the International Student Exchange Office promotes and operates student exchange opportunities for the University of Toronto community.

Students from all faculties and departments are encouraged to participate in the international and Canadian exchanges offered through the International Student Exchange Office.

International Exchanges include universities in the following countries: Australia, Barbados, France, Germany, Hong Kong, Jamaica, Japan, Singapore, Taiwan, Trinidad, and the United Kingdom.

Canadian Exchanges include: McGill University, McMaster University, Queen's University, Université Laval, Université de Montréal, University of Alberta, University of British Columbia, University of Waterloo and the University of Western Ontario.

Canadian Universities Study Abroad Program is a joint program operated by Queen's University, University of British Columbia, University of Toronto and the University of Western Ontario. Students participating in this program will study at the International Study Centre (ISC) located in the Herstmonceux Castle in East Sussex, England. This program is open to both First and Upper year students.

Awards are available for some exchanges.

Deadlines for exchanges in the 1999-2000 school year are as follows:

German and French exchange	December 4, 1998
All other exchange programs	February 5, 1999
The Canadian Universities Study Abroad Program	TBA

For more information and application forms, contact:

International Student Exchange Office
Room 202, Koffler Student Centre
214 College Street, Toronto, Ontario M5T 2Z9
Tel: (416) 946-3138, Fax: (416) 978-6110
WWW: <http://www.utoronto.ca/student.exchange/>
e-mail: student.exchange@utoronto.ca

Study Elsewhere Program 1999-2000

Committee Secretary: E. Ishibashi
(416) 978-6161
Administrative Assistant: Ms. B. Jaworski
(416) 978-4060

The Study Elsewhere Program offers students the opportunity to enhance the academic scope of their chosen discipline(s) by studying in a different academic, cultural and social setting while earning credit towards a degree program in the Faculty of Arts & Science. Students normally complete the third year of an Honours degree during the year abroad.

a) Eligibility

Minimum requirements are listed below. Additional requirements may apply to some programs.

1. Completion of the second year of an Honours program by May 1999.
2. Minimum Sessional Grade Point Average of 2.50 (B-) in courses completed in the Faculty prior to June 1999, (on the last five (5.0) courses, for part-time students).
3. Demonstrated language proficiency for study in countries where the official language is other than English. (Equivalent to a second-year university level language course.)
4. Enrolment in a Specialist or two Major programs. At least three of the courses required for these program(s) must be completed by May of the second year.

b) Structure of Program

1. One academic year during which students are expected to complete the equivalent of a full-course load (4.0-5.0 full courses) in this Faculty.
2. At least 60% of the students' course work during their studies elsewhere must be completed in their area of concentration.
3. Students earn degree credit through studies supervised by instructors in the Faculty of Arts and Science or by the transfer of credit for course work completed at the host university.
4. Study Elsewhere Options
 - a. Student Exchange Programs
 - b. Self-Directed Study
 - c. Departmental Programs

See the "Study Elsewhere Program Information Brochure for details. Available in late September from Registrarial Services, Erindale College or from Room 1006, Sidney Smith Hall, 100 St. George St.

c) Application Deadlines

Study Elsewhere Program Student Exchanges
January 29, 1999.
Self-Directed Study & Departmental Programs
February 12, 1999.

A "Student Information Meeting" will be held at the end of September on the St. George Campus. For date and location, see "The Varsity Handbook" and "The Varsity" student newspaper in September.

The Study Elsewhere Program is NOT designed for studies at anglophone universities in Canada or in the U.S.A. (some exceptions apply).

9 Course Descriptions

The word "courses" refers to full courses or the equivalent in full and/or half courses.

Course Designations - "ANT", "AST", "BIO", etc.

All courses are listed in the following pages under the Department responsible for the course; for instance, "ANT" = Anthropology Department course.

Course Number

The course number generally indicates the level of difficulty, e.g., a 100 level course normally indicates an introductory course, a 400 level course is an intensive course at the senior level.

Course Suffixes

The "Y" or "H" following the Course Number in this Calendar indicates only the credit value:

"Y" = a full course, for which one credit is given.

"H" = a half-course, for which one-half credit is given.

To determine the periods of instruction, refer to the *Timetable and Registration Instructions* where the following course suffixes apply:

- A Full course given in the first term of a session.
- B Full course given in the second term of a session.
- F Half-course given in the first term of a session.
- H Half-course extending over both terms of a session.
- S Half-course given in the second term of a session.
- Y Full course extending over both terms of a session.
- Z Course for which no credit is given.

NOTE:

Not all courses listed in this Calendar will be offered in any one single session. Check the timetable issued for each session for the specific courses offered in that session.

Types and Duration of Instruction

"L" = Lectures

"P" = Practical work in laboratories or studios

"S" = Seminars

"T" = Tutorials

In the Winter Session the normal period of instruction is 26 weeks, with the Fall and Spring Terms each being 13 weeks. Total hours of instruction are indicated by codes at the end of the course description: for instance, "52L" = 52 lecture hours, "26T" = 26 tutorial hours.

NOTE: Please note that the number of hours listed is approximate only; the actual contact hours of a course, or of different sections of a course, may vary somewhat from the number indicated in the Calendar, due to the size of the class or section, and the use being made of the tutorial or practical components of the class. The variation is at the discretion of the department sponsoring the course; any questions concerning the allotment of hours in a course should be addressed to the course sponsor.

Symbols Used in Course Description and Program Requirements:

- (P.I.) Permission of instructor required to enrol.
- (I) Open to first-year students (shown after course number).
- (G) Course available only on the St. George Campus.
- (,) comma) means AND
- (;) semi-colon)
- (&) ampersand)
- (/) solidas symbol means OR

NOTE: In the biological and science teaching program there may be occasions when anatomical, biochemical, physiological and pharmacological observations are made by students on themselves or on fellow students. These include some common diagnostic or immunization procedures. Unless a valid reason exists, students are expected to participate in such exercises. If any investigative work involving student participation does not form part of the teaching program, participation is voluntary.

Professors Emeriti

M. Kleindienst, B.A., M.A., Ph.D.
R. Vanderburgh, B.A., M.A., Ph.D.

G. Crawford, B.Sc., M.A., Ph.D.
J. Melbye, B.A., M.A., Ph.D.
L. Reinhardt, B.F.A., M.A., Ph.D.
B. Sigmon, B.S., M.S., Ph.D.
D. Smith, B.A., M.A., Ph.D.

Discipline Representative and

Faculty Advisor: Professor J. Melbye
Room 227
(905) 828-3778

Anthropology is the study of human biology and culture and the interaction between the two. Courses are offered in three subfields of anthropology. Physical Anthropology is the biological study of humans and their relatives within the framework of culture. Biological studies include human osteology, human palaeontology, human genetics and adaptation, human growth, and primatology. Socio-Cultural Anthropology is the study of the ways of life of peoples throughout the world: technologies, economies, societies, languages, and value systems; the interrelationships of these; and the relationship between culture and environment. Archaeology is the study of physical remains resulting from human behaviour (e.g., habitations, tools, food remains). The goal of archaeologists is to reconstruct the cultures of the past and to trace their development from earliest times. Conclusions are drawn about the interactions of cultural and physical processes.

The Anthropology program offers the student the general background necessary for the advanced training required for professional positions. It is the special concern of the faculty to introduce students to research methods and to involve them in the research programs of the department. Students planning an anthropology concentration should consult faculty members for advice. Anthropologists are employed as faculty in universities and colleges, as researchers in museums, in national and international governmental bodies, in international agencies, and in business and industry. For additional information see Anthropology as a Career by Wm. C. Sturtevant and The Study of Anthropology by Morton Fried, available at the Erindale College Library. See page 22 for Anthropology courses considered as Science courses. Other ANT Science courses are offered on the St. George Campus.

NOTE: Consult timetable for current offerings.

ANT100Y Introduction to Anthropology

Anthropology is the global and holistic study of human biology and behaviour. This course is a survey of anthropology which includes four subfields: archaeology, linguistics, social/cultural, and physical anthropology. The material studied is directed to answering the question: What is it to be human? [52L, 26T]

ANT200Y Introduction to Prehistoric Archaeology

Cultures in the Old and New Worlds from an archaeological perspective. Principles of prehistoric research will be applied to archaeological information, from the Early Pleistocene to the beginning of written history. [52L, 26P]
Prerequisite: ANT100Y

ANT203Y Physical Anthropology

A survey of the field of physical anthropology. Topics will include human evolution and palaeontology, skeletal biology, human genetics and variation, human growth, primatology and human adaptation. [52L, 26T]

Prerequisite: ANT100Y/P.I.

ANT204Y Social and Cultural Anthropology

A general introductory course emphasizing social and political organization, economics, and the development of theory. Specific cases of social dynamics are drawn from both traditional and contemporary societies. [52L, 26T]

Prerequisite: ANT100Y

ANT209Y(I) Religious Behaviour and Systems of Thought

A comparative view of myth, ritual and philosophical systems with emphasis on the religion of non-literate peoples. [52L, 26T]

ANT212Y(I) Contemporary African Cultures

Survey of African cultures and institutions from their Iron Age roots to the present, emphasizing internal development, global interconnections and continuing transformations since the reassertion of independence in mid-century. [52L]

ANT241Y(I) Native Peoples of North America

Overview of the prehistory, ethnohistory, and ethnology of native cultures, exploring kinship, social organisation, political structure, trade relations, economics, technology, art and religion. [52L]

ANT304H Change and Continuity in Canadian Native Societies

A seminar exploring the internal and external factors which have led to disruption and revitalisation of "traditional" native cultures. The effects of contact between native and non-native peoples in Canada from the 16th century to the present are emphasised. [26S]
Prerequisite: ANT204Y/241Y

ANT310H Prehistory of Complex Societies

A survey of prehistoric complex societies, including the rise of states in Mesopotamia, Harappa, China, Japan, Mexico, and South America. The current status of our knowledge of these states, including reasons for some early states to fail, will be reviewed. [26L]
Prerequisite: ANT200Y

ANT312H Archaeological Analysis

Examines the process whereby archaeological data become meaningful. [39P]
Prerequisite/Corequisite: ANT200Y

ANT313H East Asian Prehistory

Surveys the archaeology of East Asia and relates the data to more general issues in the study of prehistory. [26L]
Prerequisite: ANT200Y

ANT317H Archaeology of Eastern North America

Chronology and analysis of the prehistoric culture areas and stages of Eastern North America. [26L]
Prerequisite: ANT200Y

ANT318H Archaeological Fieldwork
(Formerly ANT228H)

Practical experience on an archaeological site during the last two weeks of August, followed by weekly laboratory sessions September to December. [26P]
Prerequisite: ANT200Y

ANT327H Origins of Food Production

The history of food production in the Old and New World. Archaeological data are used to examine the processes of animal and plant domestication as well as the cultural impact of food production. [26L]
Prerequisite: ANT200Y

ANT331H The Biology of Sexual Differences

(Formerly ANT330H)
An exploration into the bases of human sexual differences, considering both genetics and environment. [26L]
Prerequisite: ANT203Y and a basic high school or university biology course.

ANT332Y Human Origins

A survey of human palaeontology and the evolutionary stages through which man passed in becoming *Homo sapiens*. [52L, 26P]

Prerequisite: ANT203Y, 338H

ANT334Y Human Osteology

Includes normal anatomy of the human skeleton, metrical and morphological variation, age and sex determination, palaeodemography, palaeopathology, palaeonutrition, and techniques of recovering, preserving and recording human remains. [26L, 52P]

Prerequisite: ANT338H, 203Y/P.I.

ANT338H Laboratory Methods in Physical Anthropology

(Formerly ANT231H)

Recommended for those who may specialize in physical anthropology. The student will be guided in basic laboratory procedures on specific topics as they are discussed in the survey course. [39P]

Corequisite: ANT203Y

Limited Enrolment

ANT339H Human Adaptability

A survey of the nature and range of biological variation in modern man. [26L]

Prerequisite: ANT203Y/P.I.

ANT343H Anthropology of Gender

Various approaches to the study of sex roles. A survey of the function of gender roles from evolutionary and bio-cultural perspectives. We will review cross-cultural data on sexual/gender classifications and the role that these play in society. [26L]

Prerequisite: ANT100Y

ANT349Y The Anthropology of Art

(Formerly ANT347Y)

Comparative approaches to art and aesthetics in world cultures and the meaning and function of art in specific cultural contexts. Visual materials are emphasized. [78L]

Prerequisite: ANT100Y

Not offered in 1998-99

ANT351Y Great Ethnographic Film

(Formerly ANT351H)

A historical survey of ethnographic film, from classics produced early in this century to the present. Seminar presentations provide background for each film. [78S]

Prerequisite: ANT100Y/204Y/P.I.

ANT358H Introduction to Ethnographic Field Techniques

(Formerly ANT207H)

Recommended for those who may specialize in anthropology. Oriented around student projects; covers multiple aspects of field and research methodology (problem design, interviewing, record-keeping, etc.). [26L]

Prerequisite: ANT100Y

ANT397H Independent Study

Supervised reading in selected anthropological topics.

Prerequisite: Permission of Faculty Advisor

ANT398Y Independent Reading

Supervised reading in selected anthropological topics.

Prerequisite: Permission of Faculty Advisor

ANT399Y Independent Research

Supervised research in anthropology.

Exclusion: ANT430Y

Prerequisite: Permission of Faculty Advisor

ANT401H Visual Communication

Major approaches to the study of visual communication are studied. Bodies of visual materials, both documentary and commercial are analyzed in terms of social and cultural contexts. Student projects may involve the use of still, movie, video filming and archival sources. [39P]

Prerequisite: ANT100Y

ANT405Y Technology, Society and Culture

The role of technology in social and cultural change and adaptation, including an introduction to basic techniques and their historical development. [78P]

Prerequisite: P.I.

Not offered in 1998-99.

ANT411H Archaeological Theory

An evaluation of explanatory processes in prehistory and a comparison of archaeological theories with general anthropological theories (alternates with ANT416H) [26L]

Prerequisite: ANT200Y

ANT415Y Faunal Archaeo-Osteology

Examination and interpretation of faunal material from archaeological sites, to obtain cultural information regarding the site occupants. [78P]

Prerequisite: ANT200Y

Recommended Preparation: ANT312H/334Y

ANT418H Advanced Archaeological Fieldwork

(Formerly ANT412H)

Fieldwork and analysis of artifacts. [26P]

Prerequisite: ANT318H

ANT430Y Special Problems in Physical Anthropology or Archaeology

Supervised independent research in Physical Anthropology for students requiring science credit.

Exclusion: ANT399Y

Prerequisite: Permission of Faculty Advisor

ANT432H Special Seminar in Anthropology

A research oriented seminar with topics that may vary from year to year depending on special interests of staff and students.

Prerequisite: P.I.

ANT434H Palaeopathology

The study of diseases and maladies of ancient populations. The course will survey the range of pathology on human skeletons, (trauma, infection, syphilis, tuberculosis, leprosy, anemia, metabolic disturbances, arthritis and tumors). [13L, 26P]

Prerequisite/Corequisite: ANT334Y

ANT438H The Development of Thought in Physical Anthropology

This course will present a world-wide perspective of Physical Anthropological research and how it developed in different countries. To be discussed will be variation in approaches, subjects studied, philosophical attitudes, and the emergence of common themes in the study of Physical Anthropology. [26L]

Prerequisite: ANT203Y and two other courses in Physical Anthropology

ANT439Y Forensic Anthropology

Forensic anthropologists are often called upon by law enforcement officials and defense lawyers to identify the remains of victims of murder, mass disasters and atrocities.

Special methods are used in the recovery and identification of human skeletal remains for presentation in a court of law. [26L, 52P]

Prerequisite: ANT334Y

ANT499Y Advanced Independent Research

For students whose original research is leading towards a publishable report.

Prerequisite: Permission of Faculty Advisor

J.B. Lester, B.A., M.Sc., Ph.D.
J.R. Percy, B.Sc., M.A., Ph.D.

Discipline Representative and

Faculty Advisor: Professor John R. Percy
Room 4046, South Building
Office Hours by Appointment
(905) 828-5351

Astronomy, of all the sciences, is perhaps the most wide-ranging in its content and in its implications. It embraces such topics as the origin and evolution of the planets, stars, galaxies and the whole universe; the origin of life on earth and elsewhere; the behaviour of matter in environments never experienced on earth, and in general, the influence of the universe on mankind's thinking down through the ages. Because of its breadth, it has always formed a valuable part of a general education. With this in mind, we offer courses of interest to every student at Erindale. Three of these are introductory courses. AST101H and AST201H are both intended for students from outside the sciences. AST101H introduces the student to the historical background of astronomy and continues through to the modern discoveries about the solar system and the development of modern telescopes and observatories, both on the ground and in space. AST201H surveys the structure and evolution of the stars, galaxies, quasars, and the universe as a whole.

Students with a background in science can take AST110H, which provides an introduction to observing and analysis, including some computer modelling. AST252H is a unique interdisciplinary course that examines the broad topics of the nature of life, its origin and evolution on earth, and its possible existence elsewhere in the universe. This course is intended for students who have some background in the sciences. A related course that may also be of interest is GSC237H, which deals with solar system objects from a geological perspective. The Astronomy Department sponsors a specialist program in Astronomical Sciences and a major program in Astronomy, both of which are outlined in Section 8 of this Calendar. Students interested in either of these programs should consult the Astronomy Faculty Advisor at Erindale as early as possible in their first year. The Faculty Advisor can also provide information and advice about the astronomy courses and programs available on the St. George Campus.

AST101H Solar System Astronomy

This course traces our understanding of solar system objects from prehistoric times to the present. The impact of telescopes and space observatories is outlined. This course is for students with NO science background or those who do not intend to specialize in science.

[26L, 13T]

Exclusion: AST100Y, 120Y, 200H, or a 200 or higher level course in Chemistry, PHY135Y/140Y.

AST110H Practical Astronomy

This course gives a quantitative, scientific introduction to observing, concentrating on objects that can be seen with the naked eye or with binoculars. The measurements will be combined with calculations to yield quantitative conclusions and predictions. Computer programs are used to understand the observations more completely. This is the first course for students following the major in astronomy or the specialist in astronomical sciences, but it is also suitable for students with the appropriate background who want to understand more fully the celestial phenomena visible to them. This is a half course that extends over the full academic year. [26L, 26T]

Exclusion: AST225H(G), AST325H(G)

Recommended Preparation: O.A.C. Physics, O.A.C. Calculus, Algebra and Geometry.

AST201H Stars and Galaxies

This course surveys current ideas about the structure and evolution of astronomical objects ranging from the stars to the universe as a whole. This course is intended for students with NO science background or those who do not intend to specialize in science. This course does not require AST101H, but it may be combined with AST101H for a full-course credit in science for distribution purposes.

[26L]

Exclusion: AST100Y, 120Y, 200H, a 200 or higher level course in chemistry, PHY135Y/140Y.

AST252H Cosmic Evolution

The origin and abundance of the chemical elements. The origin and evolution of stars, planets (interiors and atmospheres), and life—on earth and possibly elsewhere. [26L]

Exclusion: AST101, 201, 251

Prerequisite: CHM135Y/140Y/150Y/
PHY135Y/140Y

AST425H Research Topic in Astronomy

Consists of a research report by the student in consultation with an individual staff member in the department. Students must enrol with the faculty advisor of the department on the Erindale Campus.

Corequisite: PHY355H(G)

Professors Emeriti

P.W. Ball, B.Sc., Ph.D.
P.F. Maycock, B.A., M.Sc., Ph.D.
J. Svoboda, B.Sc., Ph.D.

Biology

T.M. Bubela, B.Sc., Ph.D.

Botany

J.B. Anderson, B.A., Ph.D.
W.R. Cummins, B.Sc., Ph.D.
G.S. Espie, B.Sc., Ph.D.
P.A. Horgen, B.A., M.Sc., Ph.D.
L.M. Kohn, B.Sc., Ph.D.
P.M. Kotanen, B.Sc., M.Sc., Ph.D.

Zoology

T.M. Alloway, B.A., M.A., Ph.D.
R.L. Baker, B.Sc., M.Sc., Ph.D.
N.C. Collins, B.A., Ph.D.
J.H. Fullard, B.Sc., M.Sc., Ph.D.
D.L. Gibo, B.A., Ph.D.
D.T. Gwynne, B.Sc., Ph.D.
A.B. Lange, B.Sc., Ph.D.
G.K. Morris, B.S.A., M.Sc., Ph.D.
D. O'Day, B.Sc., M.Sc., Ph.D.
R.R. Reisz, B.Sc., M.Sc., Ph.D.
W.G. Sprules, B.Sc., M.A., Ph.D.
J.T. Westwood, B.Sc., Ph.D.

Chair of the Biology Group at Erindale:

Professor J.B. Anderson

Chair of the Biology Curriculum Committee:

Professor N.C. Collins

Faculty Advisor: Dr. T.M. Bubela
Room 3037
(905) 828-5366

Biology is the science of living organisms. It relates to such major human problems as starvation, overpopulation, conservation, pollution, and to the whole field of medicine and disease.

Botanists and Zoologists at Erindale cooperate closely in offering Biology courses that focus on the structure, function and evolution of biological systems from the molecular scale to the level of the ecosystem.

Career opportunities open to graduates in Biology include teaching; governmental research in areas such as environmental problems, natural resources, wildlife management, conservation, pollution and pest control; business and industry, including biological supply companies, pharmaceuticals, food and dairy industries and biotechnology; medical, dental and related fields including physiological or microbiological research.

As preparation for BIO151Y we recommend at least 60% in one OAC Science and two OAC Mathematics courses or permission of instructor. First year students intending to major or specialize in Biology and who have the above preparation should enrol in BIO151Y. They should also consider one of the following in their first year: BIO204H, 205H, 206H. The remainder of BIO204H, 205H, 206H, 207H, (BIO215H for specialist program) are also required courses and should be taken before the end of the second year.

Students interested in cell/molecular/genetics courses should also take BIO215H in their second year. Please check prerequisites for 300/400 level courses.

Further information on Biology courses, programs, and the research interests of the Biology faculty can be found in the Erindale Biology Handbook, copies of which can be obtained from the Biology Secretarial Office, Room 3032 or on the WWW at <http://www.erin.utoronto.ca/~w3bio>. The Biology Faculty Advisor is available for help with choosing courses and discussing program requirements.

Effective biological training involves careful study of real organisms, both living and dead. Consequently, almost all BIO courses with laboratories involve students in one or more of the following activities with animals, plants, and/or microorganisms: collecting and preserving organisms from the field; dissecting or handling preserved or euthanized specimens (or properly anaesthetized living specimens); observing and making measurements on organisms maintained under laboratory conditions approved by the Canadian Council of Animal Care. Completion of Specialist or Major programs in Biology will require students to participate in many such activities. Therefore, students who have objections to such activities should not attempt to major or specialize in Biology at Erindale. Students in non-Biology programs who wish to take a Biology course with minimal direct contact with organisms should consult the Biology advisor.

In obtaining organisms for study in our courses and in studying outdoor natural areas, the Biology Group takes measures to avoid any impacts on threatened organismal groups or rare habitats, and to limit below sustainable levels the impacts of our collecting and measuring on local animal and plant populations.

Students without pre-and co-requisites or written permission of the instructor can be de-registered from courses at any time.

ENV100Y The Environment

For description see **Environment** courses.

BIO151Y Evolution and Biodiversity

The modern theory of evolution is used as an introduction to biology. The two main parts of the course present the consequences of Darwinian evolution: adaptations of organisms as a product of the main evolutionary mechanism - natural selection - and, how this mechanism and others produce the vast diversity of life on earth. [52L, 78P]
Prerequisite: OAC Biology/P.I.

Recommended Preparation: At least 60% in one OAC Science and two OAC Mathematics courses.

BIO204H(I) Introduction to Physiology

How animals and plants work. Follows food from ingestion through energy production to the work of the living system and finally excretion of waste. Topics covered include elementary biochemistry, nutrition, digestion, translocation and circulation, respiration, photosynthesis, hormones, muscles and nerves. [26L, 33P]

Prerequisite: 70% in OAC Biology/BIO151Y/P.I.

Corequisite: CHM140Y

BIO205H(I) Ecology

An introduction to ecological principles emphasizing the structure and dynamics of populations, communities, and ecosystems. Practical sessions include field work in the vicinity of the College. A charge may be made to partially cover the cost of transportation provided for field trips. [26L, 18P]

Prerequisite: 70% in OAC Biology/BIO151Y/ENV100Y for students in Environmental Programs/P.I.

BIO206H(I) Introductory Cell and Molecular Biology

(Formerly BIO202H)

An introduction to the molecular biology of the cell with an emphasis on similarities and differences between prokaryotic and eukaryotic cells. Topics include the structure and function of: macromolecules, membranes, ribosomes, nuclei, intracellular organelles, etc. Other topics include: the central dogma of molecular biology (replication, transcription and translation), protein targeting, organization of the genome, gene regulation and regulation of the cell cycle. In the tutorial, students will use microscopes to study cells, learn how to use computer software related to the course and build three dimensional models of DNA, proteins and lipids. [26L, 12T]

Exclusion: BIO202H,250Y(G)

Prerequisite: 70% in OAC Biology/BIO151Y/P.I.

Corequisite: CHM140Y

NOTE: To students doing Specialist programs in Biology, Physiology, Biodiversity and Evolutionary Biology, and Molecular Biology: two companion courses, BIO207H and BIO215H must also be taken to fulfill degree requirements.

BIO207H Introductory Genetics

(Formerly BIO203H)

The principles of Mendelian inheritance and modern genetics are illustrated using examples from medical research, evolutionary biology, agriculture and conservation biology. Topics covered include: chromosome theory of inheritance, basic eukaryotic chromosome mapping, gene and chromosome mutation, the *lac* system, the extranuclear genome, population and quantitative genetics. In tutorials, students will work through problem sets related to lecture material as well as probability and statistical analysis. [26L, 12T]

Exclusion: BIO203H,260H(G)

Prerequisite: BIO202H/206H

Corequisite: CHM140Y

BIO215H Laboratory in Molecular Biology and Genetics

In this course, students will perform some modern molecular biology techniques including: DNA restriction analysis, transformation, plasmid isolation and characterization, PCR and DNA fingerprinting. There will also be labs in classical genetics including: Mendelian genetics, monohybrid and dihybrid crosses in *Drosophila melanogaster*, sex linkage, chromosome mapping and tetrad analysis. In addition to the lab practical each week, there will be 1 hour of lecture that provides an introduction and theoretical basis for each lab. [13L, 39P]

Exclusion: BIO202H,250Y(G)

Prerequisite: BIO206H

Corequisite: BIO207H

BIO301H Marine Biology

A field course at St. Andrews, New Brunswick, consisting of informal lectures and seminars with intensive field and laboratory work.

Different marine habitats are examined in detail and the animals and plants associated with them are classified. Students carry out projects in which they are encouraged to develop their own ideas and interests.

Lectures on special topics are given by the scientific staff of the Biological Station.

The course is given in the two-week period before the beginning of the fall term. Students must meet their own costs for board, lodging and transportation. Application/ballot forms are available in in Room 3030. Please see the Biology Secretary in early September for further details.

Prerequisite: BIO205H and specific permission of instructor.

BIO304H Neurobiology

An expanded examination of the physiology of nervous systems. The course will investigate the electrophysiological properties of neurons and muscles, the role of the semipermeable membrane in bioelectricity, and the organization of neural circuits into higher-order processing systems (i.e. the central nervous system). Invertebrates, and humans will be studied with particular attention to the evolution of nervous systems from nerve nets to brains. [26L, 39P]

Prerequisite: BIO204H/specific permission of the instructor

BIO310H Physiology of Regulatory Systems

This course will examine the sub-organismal, physiological responses of an animal to various external stresses imposed by fluctuations in the environment. Topics covered will include the body's internal control of temperature (thermoregulation), salt and water balance (osmoregulation), nutrient levels (digestion and excretion), as well as the neural and hormonal control of these systems. [26L, 30P]

Exclusion: ZOO325H(G)

Prerequisite: BIO204H/specific permission of the instructor

BIO312H Plant Physiology

The principal physiological processes, and the influence of environmental factors on them, will be studied in plants. Topics will include photosynthesis, water relations, mineral nutrition, translocation, respiration, general metabolism, and growth. These topics will be related to agriculture, ecology and biotechnology. [26L, 39P]

Prerequisite: BIO204H. Students without the required prerequisite are invited to obtain permission of the instructor

BIO315H Advanced Cell Biology

This course will use the information learned in BIO202H to introduce the students to many exciting new topics in the structure and function of normal and diseased cells. Areas of focus will include membrane structure and function, cell adhesion, cellular communication, signal transduction, the cytoskeleton, and cell movement. In the laboratory exercises, students will be introduced to commonly employed techniques such as cellular fractionation, polyacrylamide gel electrophoresis, western blotting, immunolocalization and spectrophotometry. [26L, 39P]

Prerequisite: BIO202H/(206H,215H),203H/207H

BIO316H Field Course in Ecology

Students may choose from a variety of field courses offered through a cooperative arrangement among ecologists at ten Ontario universities. Most courses involve a two-week period at a field site in early May or late August, and require a major paper or project report be submitted within 6 weeks of course completion. A fee for room and board is usually charged over and above tuition. Lists of courses available are posted outside Room 3032 in January of each year, and applications are accepted beginning in mid-January.

Students must see the Erindale Coordinator, Prof. J. Fullard, before registering in the course. Students register for this course in the fall, *after* the course has been completed.

Prerequisite: Permission of Coordinator

ENV317H Changing Ontario Environments

Survey of major Ontario habitat types with emphasis on prehistoric and historic changes. Modern environments will be placed in the context of past climatic and human influences. This course will require numerous field trips to local sites. A charge may be made to partially cover the cost of transportation provided for field trips. [13L, 52P]

Prerequisite: BIO205H

Recommended Preparation: ENV100Y, BIO330H

Offered in alternate years.

BIO318Y Animal Behaviour

An introductory overview of the behaviour of animals presented from a zoological perspective for Biology specialists. Behaviour is examined as the evolved result of interaction with other animals, such as predators, potential mates and other aspects of the environment. Other topics include behavioural genetics, development, communication, motivation and the control of behaviour by physiological mechanisms. **Students will be required to complete an independent project.** [52L, 78P]

Exclusion: BIO328H

Prerequisite: BIO151Y

BIO319H Invertebrate Zoology

Comparative morphology of the major invertebrate phyla: protozoans, coelenterates, flatworms, nematodes, molluscs, annelids, echinoderms, and arthropods. Students learn to recognize the larger taxa within these phyla and they discover design differences in the organ systems (digestive, locomotory, reproductive, etc.) of these animals. A collection of local, identified invertebrates may be required. [26L, 39P]

Prerequisite: BIO151Y

BIO325H Functional Morphology of Animals

A study of the anatomy of vertebrate and invertebrate animals at the body and organ levels of organization, emphasizing the adaptive meaning of structure. Content includes the body plans of animals, recognition of the parts of their organ systems, the comparative anatomy of the major phyla, biomechanical aspects of locomotion. [26L, 39P]

Prerequisite: BIO151Y

Recommended Preparation: BIO204H

BIO328H Lectures in Animal Behaviour

An introductory overview of the behaviour of animals presented from a zoological perspective for Biology specialists. Behaviour is examined as the evolved result of interaction with other animals, such as predators or potential mates, and other aspects of the environment. Other topics include behavioural genetics, development, communication, motivation and the control of behaviour by physiological mechanisms. **No laboratory or field work is included.** [52L]

Exclusion: BIO318Y

Prerequisite: BIO151Y

BIO330H Plant Ecology

Patterns of plant growth, reproduction, population dynamics, community composition, and productivity. Interactions with other plants, diseases, and animals (herbivores, pollinators, and seed predators and dispersers) will be particularly emphasized. The laboratory will focus on sampling and experiments conducted in the lab and in the local plant communities. [26L, 36P]

Exclusion: BIO331H

Prerequisite: BIO205H

Corequisite: BIO360H/any other statistics course

BIO332Y Freshwater Biology

A functional analysis of aquatic ecosystems, with emphasis on lakes. Lecture topics include: physical environments of lakes and streams; determinants of productivity of algae, zooplankton, fish and benthos; determinants of species structure of each of these groups; the processes of eutrophication and acidification. In the laboratory, aquatic measurement techniques and taxonomy and ecology of local plants and animals are emphasized. Required weekend field trips on September 19 or 20 and September 25-27, 1998. A charge may be made to partially cover the cost of transportation provided for field trips. [52L, 78P]

Exclusion: BIO337H, 368H(G), 369Y(G)

Corequisite: BIO205H

BIO334H Entomology

An overview of the Class Insecta, emphasizing the functional morphology, physiology, behaviour and evolution of this most successful group of animals. Laboratories involve learning to recognize insect orders, families, genera and species. An insect collection is required. Topics include insect flight, sensory systems, development, reproduction and the economic importance of insects. [26L, 39P]

Exclusion: BIO338H

Prerequisite: BIO151Y/P.I. for students in the Forensic Science Program.

BIO335H Mycology

A study of the biology of fungi with emphasis on their life histories, morphology, classification, ecology and significance to man. Laboratory sessions will include the collection, culture, and identification of a wide variety of fungi. In addition, several experiments illustrating important aspects of fungal physiology and development will be performed in the laboratory. [26L, 39P]

Prerequisite: BIO151Y/any 200 level course in BIO.

BIO337H Lectures in Freshwater Biology

A functional analysis of freshwater ecosystems with emphasis on lakes. Physical environments of lakes and streams; determinants of productivity of plankton, benthos and fish; determinants of aquatic community structure; impacts of eutrophication, acidification, and development in watersheds. No laboratory or field work is included. [52L]

Exclusion: BIO332Y, 368H(G), 369Y(G)

Corequisite: BIO205H

BIO338H Forensic Entomology

A survey of the Class Insecta covering morphology, physiology and behaviour with emphasis on topics of forensic significance. Laboratories focus on gaining proficiency in recognizing insect orders, families, genera and species. In addition, students carry out a field study of the changes in insect fauna that occur during decomposition of carrion. Two insect collections are required: a general collection that illustrates the diversity of insects found in the region and a collection of species of forensic importance that are attracted to carrion. Offered only in summer. [24L, 36P]

Exclusion: BIO334H

Prerequisite: BIO151Y/P.I.

BIO341H Advanced Genetics

A course designed to present the student with the following topics at an advanced level: extensions to Mendelian genetics, linkage and advanced mapping analyses, mutation, extrachromosomal inheritance, quantitative genetics, population and evolutionary genetics and genetics of behaviour. [26L, 13T]

Prerequisite: BIO202H/(206H,215H),203H/207H

BIO353H Plant Growth and Development

Tissue and cell culture techniques are emphasized, as are applications of biotechnology to agriculture. Topics such as the hormonal control of growth and development, photoperiodicity, circadian rhythms, and environmental stimuli are studied as they influence development. [26L, 39P]

Prerequisite: CHM140Y,BIO151Y,P.I.

BIO354H Vertebrate Form and Function (Formerly BIO454H)

The design and adaptive consequences of vertebrate structure are examined.

Mechanisms of locomotion, exchange and sensory perception are compared at the organ level. Students conduct individual laboratory dissections on selected vertebrates. [26L, 39P]

Prerequisite: BIO151Y

Corequisite: BIO356H

BIO356H Major Features of Vertebrate Evolution

The evolution of the vertebrates as evidenced by the fossil record. Special emphasis will be placed upon the origin and adaptive radiation of major groups including amphibians and reptiles. Practical sessions will include the study of fossils, and techniques of collection and preparation. Six laboratory sessions will be held at the Royal Ontario Museum. [26L, 39P]

Prerequisite: BIO151Y

BIO360H Biometrics I

An introduction to the basic principles and procedures of biological statistics. Topics will include the nature of data, effective data presentation, the relationship of samples to populations, probability, sampling theory, descriptive statistics, estimation, comparison of samples, power testing and analysis of frequencies. Collection and analysis of biological data will be done in the laboratory. Students are advised to combine this course with BIO361H for a complete introduction to Biometrics. [26L, 21P, 12T]

Exclusion: Any 200 level course in Statistics

Prerequisite: Written permission of instructor required for Year II students.

BIO361H Biometrics II

A sequel to BIO360H in which topics in biological statistics are presented at an advanced level. Regression, concepts of power, analyses of variance, analysis of covariance, non-parametric techniques, and computer-intensive approaches are included. Students will be required to complete an independent project involving experimental design, and collection and analysis of data. [26L, 6P, 22T]

Exclusion: Any full course equivalent in statistics at the 200 level

Prerequisite: BIO360H

BIO370Y Microbiology

In-depth discussion of bacterial structure and ultrastructure; physiology and nutrition; growth and cultivation; nature of viruses (bacteriophage and a limited survey of animal viruses and their properties); microbial genetics; immunology; the role of micro-organisms in medicine, industry, agriculture and ecology. [52L, 78P]

Prerequisite: BIO202H/(206H,215H),203H/207H;CHM140Y

JBC372H Molecular Biology (Formerly BIO372H)

The organization, storage and transmission of genetic information. Structural features of nucleic acids and genes. DNA replication and repair. Transcription mechanisms and regulation. The genetic code and protein synthesis. Introduction to mechanisms of recombination. Selected topics in biotechnology (mutagenesis, gene manipulation, PCR). [39L, 24T]

Exclusion: BIO372H;CHM360Y;JLM349H(G);MGB311Y(G)

Prerequisite: BIO202H/(206H,215H),203H/207H;CHM240Y

Recommended Preparation: CHM361H

BIO380H Human Development

Beginning with sex cell formation and fertilization, this course then covers embryogenesis, maturation and senescence. Making comparisons with other species, each of these subjects will be analyzed in terms of issues relevant in today's society such as contraception, in vitro embryonic development, genetic manipulations and cloning. [26L, 13T]

Prerequisite: BIO202H/(206H,215H)

Recommended Preparation: BIO204H

ENV400Y Environmental Research Project
For course description see **Environment** courses.

BIO405H Ecology of Communities and Ecosystems

Predator-prey interactions, competition, and exploitation of plant and animal populations. Plant-herbivore relationships. Ecological energetics. Control of the trophic structure and energy flow through foodwebs. Laboratories will focus on computer modelling and analyses of group experiments. [26L, 24P, 9T]

Exclusion: BIO417Y,320Y(G)

Prerequisite: BIO205H,360H

Corequisite: BIO361H

BIO410H Insect Physiology

A lecture course with a seminar component designed to introduce the student to the physiological characteristics of insects. The physiology of the integument, metamorphosis, reproduction, diapause and the physiological basis of insect control will be discussed in detail. [26L, 26S]

Prerequisite: BIO151Y,204H, P.I.

Recommended Preparation: BIO334H

BIO418H Behavioural Ecology

An in-depth analysis of recent developments in Behavioural Ecology, including evolutionary and ecological implications of aggression, parental care, foraging, sexual selection, and predator avoidance. Examples will be drawn from both invertebrates and vertebrates. Students will present seminars dealing with recently published research articles as well as writing and presenting a library research project. [13L, 26S]

Prerequisite: BIO318Y/328H

Corequisite: BIO360H

Offered in alternate years.

BIO420H Advanced Plant Physiology

Lectures, discussions, and student presentations from the current literature will be used to examine selected topics in plant physiology and development including plant hormones, water relations, morphogenesis, or plant photobiology. Responses to environmental stresses will be emphasized. [26L, 13T]

Prerequisite: BIO312H, P.I.

Offered in alternate years.

BIO422H Bioacoustics

Sound and vibration signals are important in the lives of many animals. This course reviews acoustic signalling in insects, frogs, fish, birds and other animals and extracts general insights into the adaptive basis of signal structure. Students make a tape-recorded collection of animal sounds from the field. [26L, 15S, 24P]

Prerequisite: BIO318Y

BIO434H Advanced Topics in Whole Organism Neurobiology

The adaptive function of the nervous system in the intact animal. Using examples drawn from invertebrates and vertebrates, we will discuss current theories in: sensory ecology, the relationship between the sensory nervous system and its environment; neuroethology, how nervous systems control the natural behaviour of animals; and neural evolution, the responses of nervous systems to natural and sexual selection. [26L, 13S, 13P]

Exclusion: BIO404H,424H

Prerequisite: BIO304H/P.I.

BIO442H Mechanisms of Evolution

The theory of evolution and processes of evolution are examined in detail. Topics include the evidence for evolution, basic population genetics, the neutralist/selectionist controversy, quantitative genetics, speciation, adaptation, and the units of selection. Students will be required to present a seminar and write a term paper on a topic in evolutionary biology. [26L, 39S]

Prerequisite: BIO203H/207H

BIO443H Macroevolution

The course deals with recent developments in evolutionary biology "above the species level". Topics include: the rules and philosophies for determining phylogenies and higher taxonomic groups; historical biogeography; evolutionary rates - does evolution proceed gradually or in "fits and starts"? Is natural selection of species an "emergent" force contributing to phyletic trends that is separate from Darwinian selection on individuals? Are historical mass extinctions real? If so, how does the available data fit with explanatory hypotheses such as meteoric impacts, mass volcanic eruptions etc.? [26L, 26T]

Prerequisite: BIO151Y,203H/207H

Offered in alternate years.

BIO452H Advanced Topics in Cell Biology

This course focuses on the current state of affairs in certain areas of cell biology. Topics such as intercellular communication, cell-to-cell adhesion, cell fusion, signal transduction and differentiation will be covered. Lectures and seminars will involve critical discussions of recently published research articles. [39S]

Prerequisite: BIO315H

Offered in alternate years.

BIO464H Conservation and Biodiversity

Biodiversity is the sum of species diversity, and also the interaction of species at population, at ecosystem and at migration-route levels; it is one barometer of environmental health.

Conservation biology applies ecological and genetic principles to the problem of declining biodiversity. We will discuss the species concept, quantification and cost-benefit analysis of biodiversity and extinction, causes, consequence, diagnosis and treatment of population declines, as well as the effects of different land uses on biodiversity and reserve design. A key part of this course will be a case study by each student. [26L]

Prerequisite: BIO151Y, 205H and specific permission of instructor

NOTE: Students from a wide range of programs are encouraged to enrol.

BIO475H Modern Approaches to Biotechnology

This course is designed to introduce students to the theory and methodology of genetic engineering utilizing both somatic cell fusion approaches and recombinant DNA approaches. Students will isolate, clone and transform genes to bacterial model systems. Aspects of current hybridoma technology, fermentation technology, immobilized enzyme and cell techniques, and protein engineering in relation to current biotechnology will be discussed. [26L, 39P]

Prerequisites: (BIO370Y, CHM361H/362H, JBC372H)/P.I.

Recommended Preparation: BIO315H, PHY135Y/140Y.

BIO477H Molecular Biology of Gene Expression and Cancer

The first part of this course examines how genes are regulated in eukaryotic cells, focusing on the function of basal and specific transcription factors. The second part of the course examines the role of specific molecules (e.g. the products of oncogenes, tumour suppressor genes and cyclins) in the regulation of cell division and cancer. Lectures and seminars will involve discussion of recently published research articles. [13L, 26S]

Exclusion: MGB420H(G)

Prerequisite: Any two of: BIO370Y; (CHM361H/362H); JBC372H/P.I.

Recommended Preparation: BIO315H, 370Y, CHM361H/362H, 371H, JBC372H

BIO481Y Biology Research Project

A research project carried out under the supervision of a staff member. Open to third and fourth year students. Students will learn to carry out and evaluate the results of a research project. Project students will also learn how to communicate their work in a professional manner by writing a proposal, a report, and presenting a seminar on the results of their research project. Students interested in doing a research project must obtain written permission from the faculty member whom they would like to serve as their project supervisor. All students must meet together with the course co-ordinator 3-6 times per year. [TBA]

Exclusion: Any other research project course.

Prerequisite: Permission of Instructor

CHEMISTRY

Professors Emeriti:

J.M. Deckers, L.Sc., Dr.Sc.
A.J. Poë, B.A. B.Sc., M.A., Ph.D., D.Sc.,
D.I.C., Sc.D.
E.A. Robinson, B.Sc., Ph.D., D.Sc.

M.K. Denk, Dipl. Chemistry, Ph.D.
U.J. Krull, B.Sc., M.Sc., Ph.D.
P.M. Macdonald, B.Sc., M.Sc., Ph.D.
J.C. Poë, A.R.C.S., M.Sc., D.I.C.
J.K. Reed, B.A., M.Sc., Ph.D.
I.W.J. Still, B.Sc., Ph.D., D.Sc.
S.D. Taylor, B.Sc., M.Sc., Ph.D.
M.A. Winnik, B.A., Ph.D.

Assistant Chair:

Professor I.W.J. Still - (905) 828-5354

Faculty Advisors:

J.C. Poë - (905) 828-3803

(Chemistry Programs)

Professors J.K. Reed - (905) 828-3806 and

S.D. Taylor (905) 828-5355

(Biochemistry Programs)

Chemistry has a vital role in modern science-based industry and in the improved material well-being and health of our society. It is being applied increasingly to the growth of our understanding of medicine, biology, materials science, geology, and many other branches of science. Chemistry also has a major role to play in solving our worldwide problems of energy conservation, environmental pollution, nuclear waste disposal and, through its important contributions to agriculture, even of famine. Many of our future advances will originate from the kind of interdisciplinary research in which chemists trained to solve problems from the molecular to the bulk level must be involved.

As an academic, university-based discipline Chemistry stands in the centre of the sciences and is recognized as a sound basis for the kind of imaginative and disciplined thinking that has application beyond science to many other occupations and endeavours. At Erindale we offer a Chemistry Program that enables a student to complete a Specialist Degree in Chemistry over a four-year period on the campus. A Major Program is also available for students enrolled for a three- or four-year degree and who want a significant background in chemistry. The Chemistry faculty are also moving strongly towards a distinctive teaching and research specialization in the border regions between chemistry and biology so that there are Specialist Programs in Biochemistry, in Chemistry and Biochemistry and in Molecular Biology (co-sponsored with Biology). Our analytical chemistry has a strong focus in this direction as well and the Department offers a Specialist Program, co-sponsored with

Physics, in Environmental Analysis.

Chemistry at Erindale is a dynamic enterprise at both undergraduate and graduate levels and we welcome dynamic and enthusiastic students.

Specialist Programs: The programs in Chemistry offered at Erindale provide a very suitable preparation for those who intend to enter the work force in industry, to teach chemistry in high school, or to continue into a graduate program. They are listed in Section 8 of this Calendar together with the Major and Minor Programs.

It is very important to plan one's program in advance and to consult regularly (at least once a year) with a Faculty counsellor. (Consult Departmental Secretary, Room 4037/Faculty Advisors for information on counselling). It is particularly desirable to take specific courses in the year of study for which they are designed (e.g., CHM200 courses in Year II); serious timetable clashes are likely to arise if this advice is not followed. While some deviations from the Specialist/Major/Minor Programs listed are possible, students should consult the Faculty Advisors before departing from the recommended programs.

Prerequisites for all CHM courses will be strictly enforced; students without prerequisites or written permission of the instructor may be de-registered from courses at any time.

CHM140Y The Study of Matter and Its Transformations

Matter and its transformations are studied at both the microscopic and the macroscopic levels. Topics include atomic and molecular structure, intermolecular forces of attraction and the phases of matter, organic chemical reactions, principles of systems at equilibrium, thermodynamics, electrochemistry and the properties of metals, and kinetics. [78L, 18P, 21T]

Exclusion: CHM135Y, 150Y, 132H(G), 133H(G), 137Y(G), 151Y(G)

Prerequisite: OAC Chemistry, Calculus, and Algebra and Geometry

Recommended Corequisite: MAT112Y/132Y/138Y is strongly recommended and is a prerequisite for entry to all 200 level CHM courses. (Note that PHY135Y/140Y is required for Specialist programs in Chemistry)

CHM211H Fundamentals of Analytical Chemistry

A rigorous introduction to the theory and practice of classical analytical chemistry. Development and applications of basic statistical concepts in treatment and interpretation of analytical data; direct and indirect precipitations; volumetric methods; acid-base, complexometric, redox and precipitation titrations; introduction to instrumental methods; potentiometry and absorption spectroscopy. [26L, 52P, 13T]
Exclusion: CHM217H(G), 219H(G), 268H(G), 269H(G)
Prerequisite: CHM140Y; MAT112Y/132Y/138Y

CHM221H Introductory Physical Chemistry

Equilibrium thermodynamics and its application to ideal and non-ideal systems: internal energy, enthalpy, entropy, free energy, chemical potential, colligative properties, phase rule and phase diagrams. Kinetics: rate laws, activated complex theory, mechanisms, measurement of very fast reaction rates. [39L, 21P, 10T]
Exclusion: CHM222Y(G), 223Y(G), 229H(G), 268H(G), 269H(G), 328H(G)
Prerequisite: CHM140Y; MAT112Y/132Y/138Y
Recommended Preparation: MAT212H/232H/258Y; PHY135Y/140Y. These courses are also prerequisites for JCP321H.

CHM231H Introductory Inorganic Chemistry

Atomic structure; periodic properties of the elements; bonding theories-ionic, covalent (valence bond and molecular orbital) and metallic; structure and bonding in coordination compounds of main group elements and transition metals; descriptive chemistry of main group elements. [39L, 28P, 10T]
Exclusion: CHM238Y(G), 239H(G)
Prerequisite: CHM140Y; MAT112Y/132Y/138Y

CHM240Y Introductory Organic Chemistry

The fundamentals of organic chemistry appropriate for students who require a broad background in organic chemistry for their intended field (e.g., biology, pharmacy, or one of the professional faculties). The course will also serve an important role as part of a two or three-year sequence in organic chemistry for students enrolled in the Specialist Programs in Chemistry, Chemistry and Biochemistry, or Biochemistry. Synthesis and reactivity of the main classes of organic compounds will be examined from the standpoint of modern theories of reaction mechanism and stereochemistry. The laboratory includes basic organic techniques and selected synthetic reactions. [65L, 52P]
Exclusion: CHM240Y(G), 248Y(G), 249H(G), 268H(G), 269H(G)
Prerequisite: CHM140Y; MAT112Y/132Y/138Y

CHM311H Instrumental Analytical Chemistry

Introduction to the basic theory and practice underlying important techniques in analytical chemistry, chosen from three major areas of instrumental analysis: spectroscopy, electrochemistry and separation science. Specific topics will include atomic spectroscopy, x-ray fluorescence, neutron activation analysis, voltammetry, high resolution gas and liquid chromatography, mass spectrometry, and a brief introduction to computer applications, including instrument control and Fourier transform methods. [26L, 13T]
Exclusion: CHM314Y(G), 319H(G)
Prerequisite: CHM211H
Recommended Preparation: CHM221H

JCP321H Introduction to Quantum Mechanics

A first course covering basic concepts of quantum chemistry and physics. Topics include: De Broglie waves and wave-particle duality, the postulates of quantum mechanics, the Schrödinger equation, the square potential well and potential barriers, the harmonic oscillator, the rigid rotor, atoms, molecules and solids. [39L]
Exclusion: CHM321H, 229H(G), 327Y(G); PHY247H/257H
Prerequisite: PHY135Y (minimum of 70% or P.I.)/140Y; MAT212H/222H/232H/248Y/258Y; CHM221H/(PHY241H, 245H)

JCP322H Introduction to Statistical Mechanics

Statistical methods for bridging the quantum behaviour of atoms and molecules to their macroscopic behaviour in solid, liquid and gaseous states. The course introduces partition functions, canonical ensembles, and their application to thermodynamic properties such as entropy, heat capacity, equilibrium constants, reaction rates, and Bose-Einstein/Fermi-Dirac distribution functions. [39L]
Exclusion: CHM322H, 229H(G), 327Y(G); PHY258H/348H
Prerequisite: JCP321H

CHM331H Inorganic Chemistry II: Organometallics

Chemistry of metallic elements. Organometallics. Main group and transition elements. Rings, cages and clusters. Lanthanides and Actinides. Applications of IR, UV-VIS and multinuclear NMR spectroscopy. Inorganic synthesis. Non-aqueous solvents. Structure and bonding. Catalysis and industrial processes. [39L]
Exclusion: CHM338H(G), 339H(G)
Prerequisite: CHM231H

CHM333H Bioinorganic Chemistry

Principles of inorganic chemical reactions and their application to biochemical systems: kinetics, mechanisms and thermodynamics of ligand exchange, acid-base and redox reactions involving metalloproteins and their model compounds; mechanisms of catalysis by metalloenzymes and their model compounds; therapeutic uses of coordination complexes; methods for studying bioinorganic compounds. [39L]
Exclusion: CHM452H, 338H(G), 437H(G)
Prerequisite: CHM231H

CHM341H Organic Reaction Mechanisms

Structural and mechanistic organic chemistry, including stereochemistry and conformational analysis. Reaction mechanisms, including electrophilic and nucleophilic addition and substitution, as well as elimination. Theory of aromaticity; concerted reactions; pericyclic reactions; reactive intermediates in organic chemistry; free radical chemistry. [39L]
Exclusion: CHM346H(G), 348H(G), 349H(G)
Prerequisite: CHM240Y

CHM345H Organic Synthesis

Methods used for forming carbon-carbon bonds will be reviewed, including reactions of the various types of nucleophilic carbon and the use of organometallic reagents. Other topics include functional group interconversions, oxidation and reduction and the role of elements such as boron, silicon and tin in organic synthesis. [39L]
Exclusion: CHM346H(G), 348H(G), 349H(G)
Prerequisite: CHM240Y
Not offered in 1998-99.

CHM347H Organic Chemistry of Biologically Important Compounds

The chemistry of selected classes of naturally occurring molecules such as those below, with emphasis on structure, stereochemistry, properties and synthesis. Amino acids, peptides, proteins, carbohydrates, lipids, nucleosides, nucleotides, and nucleic acids. [39L]
Exclusion: CHM347H(G)
Prerequisite: CHM240Y
Strongly Recommended Preparation: CHM341H/345H

CHM361H Structural Biochemistry

An introduction to the molecular anatomy and properties of the major cellular biomolecules: proteins, nucleic acids, carbohydrates and lipids. The course also covers the structural organization of membranes and nucleoproteins. Enzyme mechanisms and membrane transport phenomena will be examined in the context of structure/function relationships. [26L, 8T]
Exclusion: CHM360Y; BCH310H(G), 320Y(G), 321Y(G)
Prerequisite: CHM240Y
Recommended Preparation: BIO202H/206H; CHM221H

CHM362H Metabolism and Bioenergetics

Basic principles of biological energetics. Metabolic pathways for carbohydrate and lipid synthesis and degradation. Survey of amino acid and nucleotide metabolism. Integration and cellular regulation of metabolism. Intracellular signal transduction mechanisms. [26L, 8T]
Exclusion: BCH310H(G), 320Y(G), 321Y(G); CHM360Y
Prerequisite: CHM240Y, 361H
Recommended Preparation: BIO202H/206H; CHM221H

CHM371H Techniques in Biological Chemistry

A laboratory course to complement CHM361H, 362H. Experiments are designed to familiarize students with techniques commonly used to study the chemical and physical properties of biological molecules. Topics covered include a wide range of chromatographic methods, the isolation and characterization of subcellular organelles, enzyme purification and kinetics, isolation and characterization of nucleic acids and lipids, and radioisotope methodology. CHM371H is equivalent to BCH371H(G) (enrolment limited). [104P]
Exclusion: BCH370H(G), 371H(G)
Corequisite: CHM361H, 362H

JBC372H Molecular Biology

The organization, storage and transmission of genetic information. Structural features of nucleic acids and genes. DNA replication and repair. Transcription mechanisms and regulation. The genetic code and protein synthesis. Introduction to mechanisms of recombination. Selected topics in biotechnology (mutagenesis, gene manipulation, PCR). [39L, 24T]

Exclusion: BIO372H;JLM349H(G); MGB311Y(G)

Prerequisite: BIO202H/(206H,215H), 203H/207H;CHM240Y

Recommended Preparation: CHM361H

CHM391H Physical Chemistry and Instrumental Analysis

This laboratory course represents an integration of the study of fundamental physical chemistry with wide-ranging applications to instrumental methods of analysis, such as separation science, electrochemistry, spectroscopy and computer methods. The course will provide a solid grounding in many of the major topics covered in analytical and physical chemistry, and the optimization of instrumental analytical measurements by the application of physical principles. [104P]

Exclusion: CHM314Y(G),327Y(G)

Prerequisite: CHM211H,221H

Corequisite: CHM311H/JCP321H

CHM393H Chemical Synthesis Laboratory

This laboratory course comprises the synthesis of inorganic, organometallic, and organic compounds, supplemented by physical measurements (e.g. ir, uv, ¹HNMR spectra, kinetics, etc.) of the products where appropriate. Approximately 8 weeks each will be spent on two groups of core experiments, one in organic and one in inorganic synthesis. The remaining 8-10 weeks will be occupied by a choice of inorganic, organometallic, and/or organic experiments. [104P]

Exclusion: CHM338H(G),346H(G)

Prerequisite: CHM231H,240Y

Corequisite: CHM331H/JCP321H,CHM341H/345H

CHM414H Advanced Topics in Analytical Chemistry

Review of recent and fundamental developments of instrumentation which are revolutionizing the field of analytical chemistry. Topics will include specialized mass spectrometers and the GC/MS interface; a survey of surface-oriented techniques including electron spectroscopy, attenuated total reflection methods and photoacoustic spectroscopy; Fourier transform theory and methods; microcomputer communication, instrument interfacing and computational methods of chemometrics. [26L, 13T]

Exclusion: CHM414H(G)

Prerequisite: CHM311H

Recommended Preparation: JCP321H

Not offered in 1998-99.

CHM461H Topics in Neurochemistry

This course covers specialized areas in contemporary neurochemistry. Topics will include: structure and biochemistry of neurons, neuronal systems and specialized components such as myelin and synapses; chemistry and neuropharmacology of neurotransmitters, neuropeptides, ion channels and receptors; trophic factors and growth hormones in neuronal development; molecular basis of diseases of the nervous system. [26L]

Prerequisite: CHM(361H,362H)/BCH321Y(G)

CHM485H Dissertation Based on Literature Research

The dissertation will be based on literature research of a given area. Introductory reading will be necessary early in the course to bring students to a level where they can appreciate the most recent work in their topic. The dissertation will be conducted under the guidance of a Chemistry faculty member on a topic other than the student's research topic in CHM489Y. A final report incorporating the aims and results of the research is required, as is an oral presentation of the work. [26S]

Prerequisite: CHM221H, 2.5 CHM300 level full-course equivalents

CHM489Y Introduction to Research in Chemistry

An experimental or theoretical research problem in chemistry under the supervision of a member of the chemistry staff. The course will normally be taken in the winter session following completion of the student's third year program and application for enrolment should be made to the Department in the preceding spring. A final report incorporating the aims and results of the research is required, as is an oral presentation of the work. [260P]

Exclusion: CHM418Y(G), 428Y(G), 439Y(G), 449Y(G)

Prerequisite: CHM221H, 2.5 CHM300 level full-course equivalents including two of CHM371H, 391H, and 393H. With the permission of the course coordinator one of these courses may be taken as a corequisite.

R.L. Beck, B.A., M.A., Ph.D.
T.G. Elliott, B.A., Ph.D.
C.I. Rubincam, B.A., B.A., Ph.D.

Discipline Representative and Faculty Advisor: T.G. Elliott

Room 239, North Building
(905) 828-3760

Office Hours: Monday 10 - 12; 1 - 3
Wednesday 10-4
Friday 10-12; 1-2

Classics is the study of the civilizations of Greece and Rome. These are of interest both in their own right and because their achievements have been the foundation of so many aspects of our own civilization: its art, languages, literatures, philosophy, government. Courses in Classics thus preserve background material which is indispensable for the understanding of many other studies in the Humanities.

Courses are offered at Erindale in three areas. The first of these (CLA) does not require knowledge of Greek or Latin. It includes courses in Greek and Roman history, for which students may receive credit towards the Specialist Program in History. It also includes courses in Greek and Latin Literature, read in translation, and courses in mythology and religion. The other two areas are Greek (GRK) and Latin (LAT) language and literature. Beginners' courses are offered in both languages.

Most courses are offered in alternate years. Consult the Departmental Handbook which can be obtained from the Classics Secretary, Mrs. Julie Waters, in March (Room 227, North Building; telephone: 905-828-3727). For other courses in Classics see also Greek (GRK), Latin (LAT), FAH101Y, 256H, 258H, PHL200Y, 300H.

CLA160Y Introduction to Classical Studies (Formerly CLA130Y)

An introduction to major themes in the development of Greek and Roman civilization and culture through the exploration of thematically related selections from ancient literature, visual presentations, and lectures, co-ordinated with a basic historical text. [78L]

Exclusion: May not be taken at the same time as or after CLA350Y

CLA201H(I) Latin and Greek in Scientific Terminology

The study of technical and scientific terms derived from Latin and Greek: word elements, formation, analysis. The course is designed to give students in any field of specialization a better grasp of the derivation and basic meaning of English words formed from Latin and Greek elements. [39L]

Not offered in 1998-99.

CLA202H(I) The Ancient Novel

The human and social climate in which prose fiction arose; the Greek romances of love and adventure (Heliodorus, Longus, Xenophon), and the more ironical and socially conscious works of the Roman writers, Petronius, *The Satyricon* and Apuleius, *The Golden Ass*; parallels with modern literature. [26S]
Not offered in 1998-99.

CLA204H(I) Introduction to Classical Mythology

(Formerly CLA105H)
A survey of the myths and legends of ancient Greece (and their extension to Rome) with some consideration of their role in ancient and modern literature and art. [39L]
Exclusion: CLA205Y
Not offered in 1998-99.

CLA205Y(I) Greek and Roman Mythology

(Formerly CLA261Y)
The divine and heroic myths of the Graeco-Roman world, with special attention to the use of myth and legend in literature and art, religious ideas and practices associated with myth, and comparisons with related mythologies. [78L]
Exclusion: CLA204H
Not offered in 1998-99.

CLA224H(I) Roman Satire

A reading of selected Roman satires, with emphasis on Horace and Juvenal. Verse satire is the most personal form of Roman literature and offers the modern reader a vivid and witty picture of the society of the times. Of further interest is the influence of Horace and Juvenal on the formation of modern English and European satire. [26S]
Not offered in 1998-99.

CLA232H(I) Ancient Astronomy and Astrology

Greek and Roman views of the universe; the origin and development of scientific astronomy, astrology, and star worship. [26S]
Not offered 1998-99.

CLA234H(I) Ancient Science and Technology

Early technology; the origins and development of science, and its interactions with philosophy; the achievements and limitations of ancient technology, the survival of ancient science in western culture. [26L]

CLA235Y(I) Government in Classical Greece

(Formerly HIS485Y)
A survey of the major developments in the political thought and practice of the Greeks in the archaic and classical periods (c.750-300 B.C.). [52L, 26T]

CLA300Y Greek Tragedy and Comedy

Greek drama from the origins of tragedy in the sixth century to New Comedy, with close study of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes and Menander, and attention to Aristotle's *Poetics*. [52S]
Not offered in 1998-99.

CLA346Y Alexander the Great and the Hellenistic Age

(Formerly CLA241Y)
The achievement of Alexander and its importance for subsequent Mediterranean history. The creation of the Hellenistic states and their historical significance. [52S]
Recommended Preparation: Any CLA or HIS course
Not offered in 1998-99.

CLA350Y The Roman Empire

Constitutional, economic, social, military and religious developments in the empire, from Augustus to St. Augustine. [52L, 26T]
Exclusion: CLA160Y if taken in the same year of study

CLA354Y Caesar and Augustus

Their work and their contribution, as well as the role of their contemporaries: Pompey, Crassus, Cicero, Antony and Brutus. Based primarily on original sources (in translation), such as the writings of Caesar, the correspondence of Cicero, and the political testament of Augustus. [52S]
Exclusion: HIS486Y
Recommended Preparation: Any CLA or HIS course
Not offered in 1998-99.

CLA355H Constantine the Great and His Age

Power politics and religious experience in a formative period in the development of Western civilization. [26S]
Recommended Preparation: CLA160/350Y
Not offered in 1998-99.

CLA361Y Religion in the Roman Empire

A study of the different religious systems and beliefs competing for men's allegiance in the Roman world of the first four centuries A.D. Classical paganism and its cults; emperor worship; the philosophical alternatives to religion; astrology; the mystery religions and Mithraism; the rise of Christianity and the development of its teachings and institutions within the social context of their times; official and popular reactions to Christianity: conversion, opposition, persecution and the eventual establishment of Christianity as the Empire's sole religion. [52S]
Not offered in 1998-99.

CLA400Y Independent Studies

Prerequisite: Permission of the Department

CLA401H Independent Studies

Prerequisite: Permission of the Department

A.J. Bonner, B.Sc., M.S., Ph.D.
G.S. Graham, B.Sc., M.Sc., M.A., Ph.D.
A.D. Jepson, B.Sc., Ph.D.
C. Rackoff, B.S., M.Sc., Ph.D.
J. Sills, B.A., B.Ed.

Discipline Representative:

Professor A.D. Jepson
Room 4041
(905) 828-3813

Office Hours:

By appointment

Faculty Advisor:

Professor G.S. Graham
Room 4003
(905) 828-5341

Office Hours:

By appointment

Computer Science is concerned in the broadest sense with the study of computers and of applications of computers. Its development was stimulated by the use of computers in many areas, such as Engineering, Physics, Chemistry, Biology, Statistics, and business. Yet Computer Science involves much more than just developing techniques for these application areas.

Computer Science as a discipline encompasses a wide range of research interests. Examples are: the design and implementation of computer programming languages, the design and organization of complex computer systems, the efficient allocation and use of computer resources under various constraints, and the organization and management of vast quantities of data typical in many business applications. Computer Graphics is the study of the application of computers to the analysis and generation of pictorial information.

Theoretical interests in Computer Science include the study of computability - what can and cannot be computed by machines; of complexity - the relative effort required to perform various computations; and of verification - the formal proof of the correctness of programs. Artificial Intelligence research in Computer Science is concerned with using computers to simulate intelligent behaviour, with the development of programs that can process pictorial and linguistic data, prove theorems, solve problems, etc.

Numerical Analysis is concerned with the design, testing and analysis of numerical methods for solving computational problems in science and engineering. Course offerings in Computer Science are intended to serve a wide variety of students, ranging from those whose primary interest is in information processing, to those interested in applying computers to other fields.

Enrolment is restricted in all CSC programs (except the Minor). Consult the Calendar Supplement and the Department for details of

how to apply. CSC148H is the standard first year course for students who plan to continue with further courses in Computer Science in later years. Recommended preparation for this course is CSC108H or the equivalent. **Ballotting is required for all second year Computer Science courses. Consult the Department for details.** For more information on the Programs obtain a copy of the Computer Science Undergraduate Student Handbook from Room 4037.

NOTE: No late registration is permitted in any CSC course after the first two weeks of classes. Students may change from higher-level to lower-level introductory courses until the end of the fifth week of term.

CSC104H The Why and How of Computing
Parts of a computer and their interconnection. Software: operating systems, files, interfaces. Hardware: storage media, memory, data representation, I/O devices. History of computing. Problem solving with computers: algorithms and basic programming concepts. Science and computer science; other areas of computer science such as graphics, artificial intelligence. Common computer applications: spreadsheets, databases, simulations. Implications of computers for society: computers and work, office automation, computer security. (Students will work with various applications software packages, but the aim of the course is to discuss the concepts of computer application in general, not to serve as a tutorial for specific packages.) [26L, 13T]
Exclusion: VIC104H/SMC104H/high-school, college or university course in computing or data processing taken in the past or concurrently.

CSC108H Introduction to Computer Programming
Structure of computers; the computing environment. Programming in an object-oriented language such as Java. Program structure in an object-oriented language; classes, objects, methods, fields. Internal structure of methods: elementary data types, statements, control of flow. Arrays; searching, sorting and complexity; user interfaces and event-driven programming. [26L, 13T]
Exclusion: CSC139H/148H/149H/150H(G)
Prerequisite: Grade 12 Mathematics

CSC148H Introduction to Computer Science
Abstract data types and data structures for implementing them. Linked data structures. Encapsulation and information-hiding. Object-oriented programming in a language such as Java. Specifications. Analyzing the correctness and efficiency of algorithms and programs using mathematical reasoning. Recursion. Recurrence relations for analyzing the efficiency of recursive code. [26L, 13T]
Exclusion: CSC139H,149H,150H
Prerequisite: Two OAC courses in Mathematics
Recommended preparation: CSC108H

CSC209H Software Tools and Systems Programming
Software development techniques, typically the UNIX environment. Particular emphasis on what happens in the system when programs run. Core topics: software utilities (e.g., pipes, filters), shell programming, system calls, signals, file processing, introduction to concurrency (e.g., synchronization, mutual exclusion, race conditions, producer-consumer problem), processes. Additional topics may include: scripting languages, Internet programming languages, network programming (e.g., sockets). [26L, 13T]
Prerequisite: CSC148H,270H

CSC228H File Structures and Data Management
An introduction to techniques for storing, accessing, and managing long-term data in computer systems. Hardware and software aspects of data processing: processors, storage devices, communications, file I/O control. Techniques for organizing and managing files: serial files, direct files, indexed files, multikey files, integrated files, file systems. Introduction to data base management systems with emphasis on relational data base systems. [26L, 13T]
Prerequisite: CSC148H,270H

CSC238H Discrete Mathematics for Computer Science
A rigorous treatment of certain aspects of discrete mathematics with applications to computer science. Emphasis will be placed on the basic properties and fundamental algorithms concerning integers (including induction, Euclidean algorithm, modular arithmetic), and on logic (including propositional and predicate calculus and simple formal theories). Application of these ideas will be made to topics such as program correctness, formal program verification, algorithms from graph theory, and elementary set theory. [26L, 13T]
Prerequisite: CSC148H
Recommended Preparation: MAT102H

CSC258H Computer Organization

Computer structures, machine languages, instruction execution, addressing techniques and digital representation of data. Computer system organization, memory storage devices, micro-programming. Block diagram circuit realizations of memory, control and arithmetic functions. There will be three laboratory periods in which students will conduct experiments with digital logic circuits. [26L, 9P, 13T]

Prerequisite: CSC148H

CSC270H Fundamental Data Structures and Techniques

Standard programming methods, with an introduction to C and C++. Use of classes to represent abstract data types. Graph representation and graph algorithms.

Simulation: data structures and program organization for event-driven models.

Representation of floating-point numbers; introduction to numerical methods.

Optimization using dynamic programming.

Throughout the course, programming assignments stress both the proper use of abstract data types (lists, stacks, etc.) and approaches to writing larger, more complex programs. [26L, 13T]

Exclusion: CSC158H,160H

Prerequisite: CSC148H

Corequisite: MAT112Y/132Y/138Y

CSC324H Principles of Programming Languages

Alternative paradigms for programming, illustrated by particular programming languages. Students already familiar with the procedural approach of languages such as Turing or C will learn about functional programming (illustrated by Lisp or Scheme) and logic programming (illustrated by Prolog). Additional topics in principles of programming languages. [26L, 13T]

Prerequisite: CSC238H

CSC340H Information Systems Analysis and Design

Theory, tools and techniques of information systems analysis and design. Topics include: theory of systems and organizations; structured analysis and design; user interface design. [26L, 13T]

Prerequisite: CSC228H

CSC350H Numerical Algebra and Optimization

Floating-point arithmetic. The efficiency and stability of solution techniques for systems of linear equations and least squares problems, including LU- and QR-based methods.

Eigenvalue and eigenvector calculations.

Algorithms for optimization problems, including linear programming, and for systems of nonlinear equations. [26L, 13T]

Exclusion: CSC336H(G),ACT323H(G)

Prerequisite: CSC270H;MAT138Y,222H/248Y

CSC354H Discrete-Event Simulation and Modelling

Simulation and mathematical analysis of models of queueing systems. Concentration on dynamic, stochastic, discrete-event systems. Simulation topics: selecting input probability distributions, generating random numbers and random variates, output data analysis for one or more system configurations, variance reduction techniques.

Analysis topics: queueing characteristics, transient and steady-state behaviour, performance measures, the M/M/1 queue in detail, some non-Markovian queues. [26L, 13T]

Prerequisite: CSC270H;STA242Y/262Y/(STA107H and either STA250H or STA257H).

CSC364H Computability and Complexity

Measuring algorithm performance. Techniques of efficient algorithm design: divide and conquer, greedy method, dynamic programming, graph traversal, change of representation. Introduction to complexity theory: models of computation, P, NP, polynomial time reducibility, NP-completeness. Introduction to theory of computation:

Church's thesis, computable and noncomputable functions, recursive and recursively enumerable sets, universality, many-one reducibility. [26L, 13T]

Prerequisite: CSC238H

CSC378H Data Structures and Algorithm Analysis

Abstract data types such as priority queues and dictionaries. Advanced data structures for main memory resident information, such as binomial heaps, leftist trees, self-adjusting lists and balanced search trees. Algorithm analysis: worst case, average case, and amortized complexity. Introduction to lower bounds. Emphasis is given to problem solving and a theoretical treatment of the data structures. [26L, 13T]

Prerequisite: CSC270H,238H,STA107H/257H

CSC492H Computer Science Implementation Project

This half-course involves a significant implementation project in any area of Computer Science. The project may be undertaken individually or in small groups. The project is offered by arrangement with a Computer Science faculty member.
Exclusion: CSC494H(G), 495H(G)
Prerequisite: At least three 300 level CSC half-courses and permission of the Discipline Representative.

CSC493H Computer Science Expository Work

This half-course involves a significant literature search and expository work in any area of Computer Science. This work must be undertaken individually. It is offered by arrangement with a Computer Science faculty member.
Exclusion: CSC494H(G), 495H(G)
Prerequisite: At least three 300 level CSC half-courses and permission of the Discipline Representative.
Recommended Preparation: INE203H/ WRI203H

J. H. Astington, B.A., M.A., Ph.D.
 N. Copeland, B.A., M.A., Ph.D.

Discipline Representative and Faculty Advisor:

Professor N. Copeland
 Room 258A
 (905) 828-3770

Program Coordinator:

Patrick Young
 Sheridan College
 Trafalgar Rd. Campus
 905-845-9430
 Ext. 2709

Sheridan Faculty:

R. Cameron, B.A., A.G.S.M., D.Ed.
 D. Hayes, B.Sc., M.F.A.
 M. Mekler, B.A., M.F.A.
 G. Peterson, B.A.
 P. Young, B.A.

Drama is an art form as old as mankind. Understanding drama involves the study of plays, theatres, actors, and the many different styles of presentation and performance over the centuries from the classic tragedies of the ancient Greeks to the most modern experimental theatre. As in other art forms, understanding is advanced by *doing* as much as by studying. Courses in the theory and history of drama are therefore complemented by courses in performance.

The Specialist program in Theatre and Drama Studies includes performance courses given at Sheridan College (Trafalgar Campus) by instructors in its well-established and highly professional Theatre Arts programs. Graduates of this program will qualify for a Sheridan diploma as well as for a University of Toronto degree. They will be well prepared for professional audition opportunities as well as for graduate study or for secondary-school teaching of theatre arts. For details of the Theatre and Drama Studies Program see Section 8 of this Calendar. Please note that *all* performance courses (DRS) and DRE400Y are required for this program and that admission to them is by audition in the preceding April/May. See the Sheridan College Calendar for information about audition requirements or write: Music Theatre Dept., Sheridan College, 1430 Trafalgar Rd., Oakville, Ontario L6H 2L1 or call Anne McMullen, (905) 845-9430 ext 2577. Entry into the academic drama courses at Erindale (DRE) is not similarly restricted: with the exception of DRE400Y, they may be taken by any qualified student independently of the performance courses, and a combination of them may be used toward a four-course Minor in Drama Studies (see Section 8). These courses are designed to familiarize students with a range of approaches to drama study in a variety of historical periods. Students should refer to the flyer available in the spring from the program secretary for information about courses offered in alternate years and the studies courses.

The focus of Drama at Erindale, both curricular and extra-curricular, is the newly renovated Studio Theatre. The theatre is used for performances of Theatre Erindale, the production company of the Theatre and Drama Studies Program, and for performances of the Erindale Drama Club. Courses in drama and drama-related topics are given in many disciplines, and especially by the literature departments. A list of these courses is given with the specifications of the Theatre and Drama Studies Program (see above, Section 8), and students interested in the field are advised to consider taking some of them.

NOTE:

1. The Theatre and Drama Studies Specialist Program is part of a 20.0 course Honours B.A. 4.0 full course equivalents, including DRS121Y, must be completed before students may enrol in DRS221Y.
2. DRS courses: these are performance courses limited by audition to those in the Theatre and Drama Studies Program; although participatory in nature, these courses may also require some written work. All DRS courses will be given on the Trafalgar Road Campus of Sheridan College.
3. DRE courses: with the exception of DRE400Y, these are theoretical (i.e. non-performance) courses and are open to all qualified students, although priority will be given to those in the Theatre and Drama Studies (Specialist) and Drama Studies (Minor) programs.
4. Students who are considering graduate work in drama are advised that seven academic (non-performance) drama courses are required to be considered for admission to the one-year MA at the Graduate Centre for Study of Drama. See the list of electives in Section 8 for potentially eligible courses offered by other departments. Interested students should consult the Graduate Co-ordinator of the Centre about appropriate courses.

Courses taught at Erindale College

NOTE: Only two of DRE240H/242H/244H/246H are offered in any one academic year. Check the program flyer for information. P.I. for these courses is not necessary for students who have completed DRE120Y.

DRE120Y Introduction to Theatre and Drama

What do we mean by "drama", what various forms might it take, and how might one usefully talk about it? This course explores the formal structure and the stylistic range of dramatic texts mainly, but not exclusively, of the western tradition, and introduces various critical strategies through which they might be more fully understood and appreciated. [78L]
Exclusion: ENG222Y(G), DRM100Y(G), 120Y

DRE240H The Classical Theatre

A history of the theatre from earliest antiquity to the dying away of the traditions of performance in Byzantium, with particular reference to the great drama of the Athenian festivals. [39L]

Exclusion: DRM260H(G), CLA260H(G). May not be taken at the same time as or after CLA300Y.

Prerequisite: 4.0 full course equivalents and P.I.

DRE242H Western Theatre of the Middle Ages and Renaissance

A history of European theatre from early Christian liturgical rituals to the middle of the seventeenth century, with particular reference to the theatre of Shakespeare and his contemporaries. [39L]

Exclusion: DRM262H(G)

Prerequisite: 4.0 full course equivalents and P.I.

DRE244H Western Theatre, 1650-1820

A history of the changing conditions of the stage, largely in Europe, between the late baroque and Romantic periods, with particular reference to English and French drama and traditions of performance. [39L]

Prerequisite: 4.0 full course equivalents and P.I.

Exclusion: DRM264H(G)

DRE246H Western Theatre from 1820 to the Present

A history of the theatre largely in Europe and America since the invention of strong variable lighting revolutionised performance conditions. Reference will be made to a certain amount of dramatic literature from Ibsen onwards. [39L]

Prerequisite: 4.0 full course equivalents and P.I.

Exclusion: DRM266H(G)

DRE340H Studies in Theatrical Design

A seminar on a topic chosen by the instructor, having a particular focus on design. Topics in past years have included: Modernism in Stage Design 1880-1930; Illusion on the Stage; Theatre of Images. [39S]

Prerequisite: DRE240H/242H/244H/246H/P.I.

DRE342H Studies in Performance Styles

A seminar on a topic chosen by the instructor, having a particular focus on performance. Topics in past years have included: Twentieth Century Acting Theories; *Commedia dell'arte* in France; Stanislavski and His Influence. [39S]

Prerequisite: DRE240H/242H/244H/246H/P.I.

DRE344H Studies in Theatre and Drama I

Prerequisite: 4.0 full course equivalents

Recommended Preparation: DRE120Y

DRE346H Studies in Theatre and Drama II

Prerequisite: 4.0 full course equivalents

Recommended Preparation: DRE120Y

DRE390Y Independent Study

An independent project in drama studies, chosen by the student and supervised by a member of the faculty. The form of the project will be determined in consultation with the supervisor. A written proposal, signed by the supervisor, must be submitted for approval to the Faculty Advisor before registration.

Exclusion: DRM390Y

Prerequisite: Two DRE or DRM courses; permission of Faculty Advisor

DRE400Y Senior Studio

An intensive course in theatre and drama study and the preparation of roles for performance. In addition to rehearsing for at least one public performance during the course of the university year (see DRS421Y), students will participate in a seminar focusing on topics related to their production work. Theatre and Drama Studies Specialists must enrol in this course in conjunction with their fourth-year production work. [39S 65P]

Prerequisite: at least 3.0 full course equivalents in DRS.

Corequisite: DRS421Y, DRS425Y

Courses taught at Sheridan College**DRS121Y Acting I**

This course will introduce the elements of practical Vocal, Physical, Textual and Improvisational training for the novice actor, with an emphasis on releasing the natural impulse. It will also include an introduction to Stagecraft, with associated labs in backstage and front-of-house skills. The student will be assigned a minimum of 50 hours of production-related duties outside class time over the year; typical tasks are concentrated in 3- to 9-week periods and may include evenings and/or Saturdays. There is a materials fee for this course; see the timetable for details. [156P plus labs]

Corequisite: DRE120Y

DRS221Y Acting II

Half of this course will continue and build upon the work begun in first year in Voice, Text, and Movement. The other half will be an Introduction to Scene Study, including character analysis for the actor, with realistic material from the Canadian and International repertoire. The student will be assigned a minimum of 75 hours of production-related duties outside class time over the year; typical tasks are concentrated in 3- to 9-week periods and may include evenings and/or Saturdays. [156P]

Prerequisite: 4.0 full course equivalents, including DRS121Y

Corequisite: At least one of DRE240H/242H/244H/246H

DRS321Y Intermediate Voice and Movement

Vocal and Physical Techniques for the developing actor now become more specialized. Components may vary with the availability of Guest Instructors. For example, Voice could include some Ensemble Singing and Movement might incorporate the elements of Ballet. Applied work outside class time will include 12-33 hours per week of rehearsal and performance evenings and Saturdays for up to 16 weeks of the year. [104P]

Prerequisite: DRS221Y, P.I.

Corequisite: DRS325Y

DRS325Y Acting III

There are three components to this course. Intermediate Scene Study (Styles) may range from British Modern to Elizabethan, with related Acting Exercises. Professional Practice classes focus on the rehearsal process and the theatre scene. As the third component, each student will be scheduled regularly for a half-hour Tutorial to work on acting problems in a one-on-one situation, culminating in the major exercise called the Junior Project. [104P plus tutorials]
Prerequisite: DRS221Y, P.I.
Corequisite: DRS321Y

DRS421Y Senior Voice and Movement

Work on Voice, Text, and Movement continues at an advanced level. Again, components may vary with the availability of Guest Instructors, and sequences on Solo Singing, Combat, Mime, or further Dance forms are possible. Applied work outside class time will include 12-33 hours per week of rehearsal and performance evenings and Saturdays for up to 18 weeks of the year (see also DRE400Y). [104P]
Prerequisite: DRS321Y, 325Y, P.I.
Corequisite: DRS425Y, DRE400Y

DRS425Y Acting IV

Regular half-hour Tutorials continue, with emphasis on the development of Individual audition material. Professional Practice classes include cold reading and the realities of acting as a business. The third component of the course, Advanced Scene Study (Styles), could range from the Greeks to Commedia dell'Arte, and from Chekhov to Feydeau. [104P plus tutorials]
Prerequisite: DRS321Y, 325Y, P. I.
Corequisite: DRS421Y, DRE400Y

Professor Emeritus

J.B. Currie, B.A., M.A., Ph.D.

A.R. Cruden, B.Sc., Ph.D.
 H.C. Halls, B.Sc., M.Sc., Ph.D.
 R.H. McNutt, B.Sc., Ph.D.
 B. Murck, A.B., Ph.D.
 P.-Y. F. Robin, M.Sc., Ph.D., P.Eng.
 D.J. Schulze, B.A., M.Sc., Ph.D.

Discipline Representative:

Professor P.-Y.F. Robin

Faculty Advisor and Undergraduate Secretary:

Professor H.C. Halls
 Room 3003
 (905) 828-5363

Earth Science is concerned with the origin, evolution and structure of Earth (and other planets), through the analysis of physical, chemical and biological processes. In the last thirty years the field has been revolutionized by the discovery that the Earth's surface is a mosaic of plates that is continually moving, growing at mid-ocean ridges, and being consumed beneath mountain ranges. Modern global data sets provided by satellites continue to improve our understanding of these processes and of their environmental impact. Although exploration for natural resources continues to be the traditional vocation of geoscientists in the community, they are now playing a vital role responding to increased public and scientific awareness of environmental problems and issues. Despite increasing sophistication in computer, satellite and analytical techniques, field observation remains a cornerstone of Earth Science. A career in Earth Science therefore can lead not only to laboratory or office-based opportunities, but also offers scope to work in many parts of the world, under a range of field conditions. Oil and mining companies engaged in exploration and development, and those involved with environmental hazards, such as waste disposal, are all major employers of Earth Scientists. Provincial and Federal Geological Surveys also employ Earth Scientists and offer summer field assistantships. Other employment opportunities are in consulting, universities, and museums. Erindale offers Specialist, Major and Minor programs in Earth Sciences. These programs have four main aims: (1) to teach the fundamental processes involved in the global Earth system, with emphasis on the interactions between the solid Earth and its oceans, atmosphere and biosphere; (2) to understand the principal aspects of a sustainable and sufficient supply of natural resources; (3) to study the cause and

mitigation of hazards such as earthquakes, volcanic eruptions and groundwater contamination, and (4) to learn how to minimize and adjust to global and environmental change. This approach, by focusing on a more global environmental perspective, should appeal to students who have a general interest in geological processes and their fundamental effects on the environment. Students may combine Earth Science courses with those from other fields, in any one of four approved areas of Study; Earth Science & Anthropology, Earth Science and Chemistry, Earth Science & Physics, and Geoarchaeology. Many of our courses will be useful to students specializing in other fields such as Commerce, Geography, History, and Biology.

ENV100Y The Environment

For description, see **Environment** courses.

ERS103H Geology and Public Issues

Issues and events of current national and international concern are examined from a geological perspective. Topics include toxic and nuclear waste disposal, finite energy and mineral resources, and a variety of natural hazards, including landslides, floods, volcanoes, earthquakes, and radon contamination. [26L]

Exclusion: GSC103H

Offered in summer session only.

ERS120H Planet Earth

The Earth is our planet. What do we know about its history, its structure, and its evolution? How do we know it? What do we not know? We discuss the age and origin of the Earth, its deep interior, the world of minerals, the processes which form rocks, Plate Tectonics and the origin of mountains and oceans, earthquakes, volcanoes, etc. Tutorials present some of the methods used by geologists to study the Earth as well as some films illustrating specific topics. [26L, 13T]

Exclusion: GSC120H

Recommended Preparation: Review of Grade 9/10 Physical Science

ERS215H Environmental Geology

Environmental geology focusses on how Earth processes affect human activities (and vice versa). Geology is fundamental to understanding and solving many environmental problems. The course includes geological aspects of pollution, waste disposal, and site decontamination; geological and technological hazards, such as those involving radon and asbestos; finite Earth resources (minerals, energy, water, and soil); global change and biogeochemical cycles; and people as geological agents. [26L, 13T]

Exclusion: GSC215H

Prerequisite: ERS103H/120H/121H/ENV100Y

ERS217H Geological Hazards

Earthquakes, volcanic eruptions, tsunamis, and landslides are examples of sudden, sometimes catastrophic, events that occur in response to forces that originate deep in the Earth's interior and which, together with the action of water and wind, are continually reshaping the Earth's surface. This course will cover methods used to monitor, predict and control these potentially hazardous phenomena. Recent theories that asteroidal impacts with Earth have caused periodic mass extinctions of life will also be discussed. [26L, 13T]

Exclusion: GSC110H

Prerequisite: ERS103H/120H/121H/ENV100Y

ERS219H Minerals

An introduction is given to the structure, properties and origin of minerals. Laboratories consist of hand sample identification of common minerals, and demonstrations and exercises applying principles learned in lectures. Some of the fundamental principles of the behaviour of light in crystalline substances are introduced, allowing elementary observations concerning mineral identification with a petrographic microscope to be made in laboratory exercises. [26L, 39P]

Exclusion: GSC219H

Prerequisite: ERS120H/ENV100Y

ERS220H Structure of the Earth's Crust

Geological maps give information not only about the rocks exposed at the surface of the Earth, but also about the size and shape of rock formations below that surface, and about their ages and histories. Indeed, after they were first formed, rocks may have been buried, folded, faulted, stretched or flattened, heated up (and even melted), exhumed, eroded, ... an eventual history which may span millions and even billions of years. Geological maps are a record of what we know about that history. After learning and reviewing map fundamentals, students learn how to infer the third dimension and the evolution of the Earth's crust on which we live and depend. [26L, 39P, one field trip if spring weather permits]

Exclusion: GSC220H

Prerequisite: ERS120H/Fall term of ENV100Y/ GGR117Y, or equivalent.

Recommended Corequisite: ERS222H

ERS222H Rock Forming Processes

Many geological processes (volcanic activity, sedimentation, metamorphism, plutonism) lead to the known diversity of rocks on and in the Earth. This course focusses on how these processes can be understood by detailed examination of rocks in the field, hand sample and thin section. [26L, 39P]

Exclusion: GSC222H

Prerequisite: ERS219H

Recommended Corequisite: ERS220H

JAE237H The Solar System

In this course, we examine the recent explosion of knowledge concerning the sun, planets and other members of our solar system. We describe the methods by which astronomers and geologists study these objects, and deduce their nature, origin, and evolution. Recently-discovered planetary systems around other stars will also be discussed. [26L, 13T]

Exclusion: AST101H;ERS237H;GSC237H;GLG130H(G)

Prerequisite: One 100 level AST(except 101H)/CHM/ENV/ERS/PHY course or P.I.

ERS319H Earth Resources

The formation and global distribution of precious and industrial mineral deposits are introduced. Exploration methods and mining practices are discussed in terms of environmental effects and issues. Basic aspects of the economics and strategic importance of mineral reserves are also covered. [26L, 39P]

Prerequisite: ERS222H

ERS325H Field Camp I

This course, held on the north shore of Lake Huron in early May, covers geological mapping skills, stratigraphic section measurements, and using computers in field geology. Recognition of rock types, fossils and geological structures in the field is used to interpret ancient geological environments. Students must pay the cost of transportation and accommodation. [10 days of field instruction]

NOTE: This course is identical to GLG340H(G). Erindale students must register in the summer session.

Exclusion: GLG340H(G), GSC325H

Prerequisite: ERS220H,222H, or equivalent from St. George or Scarborough campuses

ERS336H Remote Sensing in Geology

Satellite imagery, aerial photography, imaging radar, airborne geophysics and elementary digital image processing are introduced.

Applications include: geological mapping, analysis of mountain belts and earthquake zones, hydrocarbon and mineral exploration and environmental monitoring. [26L, 39P]

Exclusion: GSC336H

Prerequisite: ERS220H/222H

ERS337H Applied Environmental Geophysics

Basic principles, instrumentation, field procedures and elementary interpretation techniques are outlined for gravity, magnetic, electromagnetic and seismic methods used in monitoring environmental problems, in archeological investigations, and in exploration of mineral deposits. Practical work emphasizes fieldwork and laboratory simulation of field surveys. [26L, 39P]

Exclusion: GSC337H

Prerequisite: ERS120H/ENV100Y,PHY105H,106H/135Y/140Y

ERS340H Environmental Geochemistry

A course on the distribution of the major and trace elements in the lithosphere, hydrosphere and atmosphere, and how this has changed over time. Topics will include geochemical cycles of carbon and sulphur, radioactive and toxic waste disposal and groundwater chemistry. Radiogenic and stable isotopes will be highlighted as important geochemical tracers in such studies. [26L]

Prerequisite: ERS219H,CHM135Y/140Y/150Y,P.I.

ENV400Y Environmental Internship

For description, see **Environment** courses.

ERS470Y Research Thesis

Arrangements for these independent research projects must be made with an Earth Science Faculty member before registration. Copies of the completed thesis must be submitted one week prior to the end of term classes.

Exclusion: ERS471H/472H/GSC470Y

Prerequisite: Any 2.0 full course equivalents from the ERS300 level, plus a 75% average in the last 5 courses taken.

ERS471H/472H Research Project

Arrangements for these independent research projects must be made with an Earth Science Faculty member prior to registration. Copies of the completed report must be submitted one week prior to the end of term classes.

Students may take both ERS471H and 472H in the same term.

Exclusion: ERS470Y, GSC471H/472H

Prerequisite: Any 2.0 full course equivalents from the ERS300 level, plus a 75% average in the last 5 courses taken.

V. Aivazian, B.S., M.A., Ph.D.
 G.J. Anderson, B.A., M.Sc., Ph.D.
 K. Clay, B.A., Ph.D.
 S.M. Eddie, B.Sc., Ph.D.
 M. Faig, Licenciatura, M.A., Ph.D.
 J.E. Floyd, B.Com., M.A., Ph.D.
 G. Hamilton, B.Sc., M.A., Ph.D.
 M.J. Hare, B.Com.
 A. Hosios, B.Eng. M.Eng., M.A., Ph.D.
 J.A. Hynes, A.B.
 A. Melino, B.A., Ph.D.
 C. Pitchik, B.A., M.Sc., Ph.D.
 S.A. Rea, A.B., Ph.D.
 F. Reid, B.A., M.Sc., Ph.D.
 M. Wooders, B.A., Ph.D.
 X. Zhu, B.Sc., M.Sc., Ph.D.

*Discipline Representative and
 Faculty Advisor:* Professor G. Anderson
Student Counsellor: Mrs. P. Hynek
 Room 226 Kaneff Centre
 (905) 828-5404

Every society is endowed with resources, the skills and labour of its people, the lands, seas and waterways it possesses, the equipment, knowledge and infrastructure passed on by previous generations and the natural resources in and on those lands and seas. The members of that society also have many wants and needs in the form of goods and services. Economics is the social science which studies how these scarce resources are allocated in and between societies in order to fulfill individual needs. Methods of allocation take many forms. Tradition and custom, governmental decree and an allocative market price system reflecting the forces of supply and demand are three well defined mechanisms. In practice, most societies operate with a mixture of these three and Economics tends to focus on the last two.

The subject is pursued at two levels. At the aggregate or macro level the problems of, and interrelationships between, aggregate output, consumption, investment, unemployment, inflation, interest rates, and international commodity flows are studied. The impact of government intervention in the form of taxation, subsidies, money creation are also analyzed. At the individual or micro level, economic analysis determines the effectiveness of resource allocation under a price system when alternative market structures such as monopolies, near monopolies through to markets with extremely large numbers of buyers and sellers exist. The effectiveness of regulation and other forms of policy to control the adverse effects of monopoly-like situations are also considered. In so doing issues relating to pollution, poverty, economic growth, energy and regional disparities are also addressed.

Students with a concentration in Economics frequently continue on, pursuing graduate work in Economics, Finance, and Business. Professionally, they proceed into Law, Chartered Accountancy, Public Administration, Banking, Insurance, Finance and various other areas of Business and Government. The Economics course sequence is designed to accommodate both the interests of students who wish to specialize in the subject and the interests of those who wish to look at the subject as part of a broader context. Economics now employs a great deal of mathematics and statistics and a student who wishes to specialize in the subject must take at least one basic course in Mathematics.

First year preparation: ECO100Y and MAT112Y/132Y/138Y.

NOTE: The enrolment in most Economics courses above the 100 level and, therefore, in all Economics programs is based on grades in ECO100Y and, in some cases, MAT112Y or MAT132Y. ECO220Y/227Y/(STA250H,257H) (but not STA220H,221H) is required for most ECO300 level courses. Students should consult this Calendar, the *Registration and Timetable Information* booklet and the information bulletins (available from the Department Office at Erindale) which set out the course enrolment criteria.
Not all courses are offered each year.

ECO100Y Introduction to Economics

A survey course with emphasis on the basic concepts and techniques of macro and micro economic theory. The concepts introduced will include: national income and its determination; monetary and fiscal techniques; the derivation and use of supply and demand schedules; the theory of the firm; and principles of comparative advantage and foreign exchange fluctuations. [52L, 26T]

NOTE: Academic performance requirements are necessary as a condition for enrolment into ECO200 level courses. (See Economic Enrolment Criteria details at the Departmental Office at Erindale and prerequisite information listed below for ECO200 level courses).

ECO200Y Microeconomic Theory

An intermediate treatment of the basic tools of economic analysis. Applications may include: choice under imperfect information, oligopoly, industrial organization, pricing, resource allocation, externalities, public goods, income distribution and welfare economics. [52L, 26T]
Exclusion: ECO206Y
Prerequisite: ECO100Y with at least 63%

ECO202Y Macroeconomic Theory and Policy

Macroeconomics, monetary economics, economic stabilization, capital markets and international monetary economics. Theories of output, employment and the price level in closed and open monetary economies are described; and the costs and benefits of stabilization policies in the context of these theories are identified. Intended primarily for students in the Economics Major and Minor programs. [52L, 26T]

Exclusion: ECO208Y

Prerequisite: ECO100Y with at least 63%

Corequisite: MAT112Y/132Y/138Y

ECO206Y Microeconomic Theory

This course deals more rigorously with the material included in ECO200Y and is intended primarily for students in the Economics Specialist programs and for students in the Commerce and Finance (B.Com.) program who have the prerequisites. [52L, 26T]

Exclusion: ECO200Y

Prerequisite: ECO100Y with at least 70%; MAT132Y(60%)/138Y(55%)

ECO208Y Macroeconomic Theory

This course deals more rigorously with the material included in ECO202Y and is intended primarily for students in the Economics Specialist programs and for students in the Commerce and Finance (B. Com.) program who have the prerequisites. [52L, 26T]

Exclusion: ECO202Y

Prerequisite: ECO100Y with at least 70%; MAT132Y(60%)/138Y(55%)

ECO220Y Quantitative Methods in Economics

An introduction to the use of statistical analysis, including such topics as elementary probability theory, sampling distributions, tests of hypotheses, estimation; analysis of variance and regression analysis. Emphasis is placed on applications in economics and business problems. [52L, 26T]

Exclusion: ECO227Y/STA220H/221H/STA250H/257H/PSY201H/202H/SOC300Y

Prerequisite: ECO100Y with at least 63%; MAT112Y/132Y/138Y

ECO227Y Quantitative Methods in Economics

This course deals more rigorously with the topics included in ECO220Y and is intended primarily for students in the Economics Specialist programs, students in the Commerce and Finance (B.Com.) program who have the prerequisites and for students planning to take ECO327Y. [56L, 26T]

Exclusion: ECO220Y/STA220H/221H/STA250H/257H/PSY201H/202H/SOC300Y

Prerequisite: ECO100Y with at least 70%; MAT132Y(60%)/138Y(55%)

ECO244Y Industrial Relations

The role, structure, and performance of industrial relations within the framework of Canada's socio-economic-political system. Growth and history of the Canadian Labour movement: its philosophy and structure. Management's strategies and tactics in collective bargaining; public policy in the field of industrial relations; strikes in so-called emergency situations: the role of unions and collective bargaining in inflation. [52L]
Exclusion: WDW244Y(G)

ECO303Y Modern European Economic History

The economic development of modern Europe, with emphasis on the industrialization process and agrarian change in major European countries with concentration on the period from 1750 to 1939. [52L]

Exclusion: ECO101Y(G)/201Y(G)/203Y

Prerequisite: ECO200Y/206Y

Limited Enrolment

ECO310Y Industrial Organization and Public Policy

The organization of economic activity in markets and non-market institutions. The operation of imperfectly competitive markets. Measures of industrial concentration and other dimensions of market structure; models of firm behaviour in different market settings; case studies of particular industries. Government policies affecting the private sector. Emphasis on competition and competition policy, the regulated industries, the patent system, externalities and market failure. [52L]

Exclusion: ECO311H, 366H

Prerequisite: ECO200Y/206Y; ECO220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO320Y An Economic Analysis of Law

This course will examine the economic basis for the law. The material will include an analysis of liability rules, including the Tort System, no-fault systems, worker's compensation, and consumer protection legislation. The appropriate economic measures of damages in tort cases will be discussed. Property rights will be considered in depth. Other topics include contracts, bankruptcy, crime, and law enforcement. [52L]

Prerequisite: ECO200Y/206Y, 220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO322Y History of Economic Thought

The course first explores the central ideas that have dominated controversies in the method and history of science in this century. With this material as background, several episodes in the development of economic theory are studied. The goal is an understanding of the structure of economics and its relation to the contemporary understanding of scientific method. [52L]

Prerequisite: ECO200Y/206Y;202Y/208Y

Recommended Preparation: ECO220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO323Y Canadian Economic Development Since Confederation

Canadian economic growth since the mid-nineteenth century; emphasis on the application of economic theory and data to historical issues. [52L]

Exclusion: ECO221Y,222Y,321Y(G)

Prerequisite: ECO200Y/206Y

Limited Enrolment

ECO324Y Economic Development

Economic development and transformation of the low-income countries of Latin America, Africa and Asia. Theory and policy analysis relating to the following economic issues in these countries: higher rates of economic growth, the role of the government in resource allocation, the industrial-agricultural sector interface, inward versus outward looking trade strategies, and the international debt problem. The following problems will also be addressed: food supply, domestic savings, tax revenue, foreign exchange, foreign direct investment, high rates of inflation, benefit-cost analysis and economic planning. [52L]

Prerequisite: ECO200Y/206Y,202Y/208Y,220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO325H Advanced Economic Theory - Macro

To develop the understanding of the economic foundations of macroeconomic theory and to develop analytical skills in constructing and solving macro economic models. [26L]

Prerequisite: ECO202Y with 70%/208Y,220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO326H Advanced Economic Theory - Micro

Imperfect information is incorporated in micro-economic theory. The impact of imperfect information on the insurance decision and insurance markets is considered in depth. Principal-agent theory is also applied to employment contracts. [26L]

Prerequisite: ECO200Y with 70%/206Y,220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO327Y Applied Econometrics

This course teaches you to use econometric methods. It provides a solid foundation in the theory and practice of those statistical techniques that have proved most useful for analyzing economic data. In addition, computer problem sets and a substantial empirical project (term paper) provide "hands on training" in formulating and testing economic hypotheses. [52L, 26T]

Prerequisite: ECO200Y/206Y,202Y/208Y,220Y with 70%/227Y/(STA250H,257H)

Recommended preparation: MAT222H/248Y

Limited Enrolment

ECO336Y Public Economics

The construction of an economic theory of government to explain the determination of the budget and to provide an economic rationale for government intervention; an analysis of changing patterns of expenditure and revenue of federal and provincial governments; the development of criteria for the evaluation of expenditure programs and the tax structure; the problems and techniques of fiscal stabilization. [52L]

Exclusion: ECO236Y(G),345H(G)

Prerequisite: ECO200Y/206Y,202Y/208Y,220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO350Y Seminar on Selected Subjects

Offers a seminar in a different subject each year. Students require written permission of the Assistant Chair in addition to minimum prerequisites published for each seminar. [52L]

Exclusion: ECO351H,352H

Limited Enrolment

ECO351H/352H Seminar on Selected Subjects

Offers a seminar in a different subject each year. Students require written permission of the Assistant Chair in addition to minimum prerequisites published for each seminar. [26L]

Exclusion: ECO350Y

Limited Enrolment

ECO360Y Economic Growth and Technological Change

Examines economic growth and technological change for the leading market oriented industrial countries (particularly, the United States, Japan and Canada). Topics include: selected theories of capitalism; the Long Wave Kondratieff cycle; sources of long term economic growth; the economics of technological change and its importance for productivity increases; causation of the economic slowdown since 1973; the economic "miracle" of Japan; the current United States-Japanese economic interface; the costs of economic growth and technological change, and other viewpoints on the importance of economic growth as a desirable goal for industrial economies. [52L]

Prerequisite: ECO200Y/206Y,202Y/208Y, 220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO361Y Labour Economics

Labour market issues are addressed at the microeconomic and macroeconomic levels of analysis, bringing both theory and evidence to bear on policy issues. At the macroeconomic level, topics such as the overall rate of wage change, strike activity, unemployment and wage controls are addressed. At the microeconomic level, issues such as hours of work, worksharing, age and sex discrimination, and the economic impact of unions are included. [52L]

Exclusion: ECO239Y(G)/339Y(G)

Prerequisite: ECO200Y/206Y,202Y/208Y, 220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO364H International Trade Theory

An analysis of the nature, effects and policy implications of international trade theory; the theories of comparative costs and reciprocal demands, factor reward equalization, international tariffs and customs unions. [26L]

Exclusion: ECO328Y(G),230Y(G)

Prerequisite: ECO200Y/206Y,202Y/208Y, 220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO365H International Monetary Economics

An analysis of the nature, effects and policy implications of international finance; balance-of-payments, and foreign exchange analysis; liquidity problems and topics related to current problems in international finance. [26L]

Exclusion: ECO328Y(G),230Y(G)

Prerequisite: ECO200Y/206Y,202Y/208Y, 220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO370Y The Economics of Organizations

The determinants of the boundary between organizations and markets. Problems of centralization vs decentralization, authority, coordination and motivation within organizations. Incentives, ownership and property rights. The nature of the employment relationship: explicit and implicit contracts, compensation, relative performance evaluation, career paths, job assignments and promotion. [52L]

Prerequisite: ECO200Y/206Y,220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO372H Game Theory and Economic Strategy

This course will develop the basic concept of non-cooperative games in extensive and normal form. The level of exposition will be comparable to the Games and decisions by Luce and Raiffa. The emphasis will be on developing an intuitive grasp of the concepts and the relationship between these concepts and strategic situations encountered in economics and other contexts. [26L]

Prerequisite: ECO200Y/206Y,220Y/227Y/(STA250H,257H)

Limited Enrolment

ECO373H The Environment: Perspectives from Economics and Ecology

The course will begin by examining the basic principles of environmental economics and ecology. It will then examine the interaction between ecological and economic factors, and will assess alternative criteria and objectives for environmental policy; the claim that there are conflicts between economic and ecological objectives will be carefully scrutinized.

Problems associated with the implementation of environmental policy will also be discussed. Policies designed to mitigate and reverse environmental damage will be examined through specific case studies. [26L]

Prerequisite: ECO100Y with at least 63%,ENV100Y,ECO200Y/BIO205H

Limited Enrolment

ECO420Y Reading Course, Seminar or Workshop

Primarily for advanced Specialist students who have exhausted course offerings in a particular subject area. Open only when a faculty member is willing and available to supervise. Students must obtain the written approval of the Assistant Chair before enrolling. [TBA]

Exclusion: ECO421H,422H

ECO421H/422H Reading Course, Seminar or Workshop

Primarily for advanced Specialist students who have exhausted course offerings in a particular subject area. Open only when a faculty member is willing and available to supervise. Students must obtain the written approval of the Assistant Chair before enrolling. [TBA]

Exclusion: ECO420Y

ECO460H The Economics of Financial Risk Management

This course includes a discussion of financial risks and the role of risk management in private and public sectors; basic derivative securities such as options, futures, and swaps; models for pricing and hedging derivative securities; investment in derivatives for portfolio diversification, difference between speculation and hedging, the value of hedging, credit risk and capital allocation. [24L, 2S]

Prerequisite: ECO227Y and/or permission of instructor

Recommended Preparation: ECO208Y,365H; MAT212H,222H;MGT330H,337Y

Limited Enrolment

J.H. Astington, B.A., M.A., Ph.D.
J. Dutka, B.A., M.A., A.R.C.T., Ph.D.
M. Garson, B.A., M.A., Ph.D.
M. Goldman, B.A., M.A., Ph.D.
R. Greene, B.A., D.Phil.
M.J. Levene, B.A., M.A., Ph.D.
R.R. McLeod, A.B., M.A., Ph.D.
L. Munk, B.A., M.A., Ph.D.
R. Sullivan, B.A., M.A., Ph.D.
S. Thomas, B.A., M.A., D.Phil.
L. Thomson, B.A., M.A., Ph.D.
K. Weisman, B.A., M.A., Ph.D.

Associate Chair and

Faculty Advisor: Professor J. Dutka
(905) 828-3737

The Department of English offers a wide range of courses. Whether an individual course provides a knowledge of one author or one genre or an entire period, its aim is to deepen the student's awareness and appreciation of a distinguished literary tradition. More broadly, studying English develops skills of analysis and expression that are required by all areas of research, business, and professional activity, and that are essential to success both within and beyond University.

Courses are arranged in four series. This gradation denotes the level of work expected in the classroom. Thus, courses in the 100 level are introductory; the 200 level provides courses at an intermediate level; and more advanced courses appear in the 300 and 400 level. (Students from outside the Faculty wishing to take English courses should consult the Associate Chair of the Department.)

The Specialist Program outlined in Section 8 provides the student with the opportunity to become acquainted with a range of authors, periods, and critical approaches. Students contemplating graduate degrees should consult their instructors about graduate school requirements, including the customary language requirements. Similarly, students considering a teaching career in Ontario should consult the Faculty of Education about the requirements for Senior certification. The student who desires information beyond what is set forth in this Calendar may obtain a brochure from the English office (Room 227, North Building) or from the Department of English on the St. George Campus (7 King's College Circle). This describes the content of courses in full detail and supplies lists of texts suggested by the individual instructors. Counselling is available from the Faculty Advisor as well as from other members of the English Faculty.

NOTE: The 100 level courses are designed to increase students' skills in close reading and effective writing. They are open to all students who have standing in fewer than nine full courses and to other students who have standing in no more than one full course in English. ENG110Y, ENG120Y, and ENG140Y are equivalent to one another and any one of them can be used in fulfillment of a Specialist, Major, or Minor Program; they will also serve to introduce students to issues in interpretation. Students with fewer than four full credits may enrol in ENG201Y and ENG202Y provided they enrol in one of ENG110Y, ENG120Y, and ENG140Y as a corequisite. ENG100H may not be used to meet the requirements of any English program.

ENG100H Effective Writing

A course designed to develop competence in writing expository and persuasive prose for academic and other purposes. It aims to teach the principles of clear, well-reasoned prose and their practical applications; the processes of composition (drafting, revising, final editing); the conventions of various prose forms and different university disciplines. The course does not meet the needs of students primarily seeking to develop English language proficiency. [39L]

Exclusion: ENG103Y

ENG110Y Narrative

This course explores the stories that are all around us and that shape our world: traditional literary narratives such as ballads, romances, and novels, and also the kinds of stories we encounter in non-literary contexts such as journalism, movies, myths, jokes, legal judgments, travel writing, histories, songs, diaries, biographies. [78L]

ENG120Y Genre and Meaning

An exploration of how major literary forms in poetry and prose shape both what the writer can perceive and express and how the reader receives and interprets the text. We shall consider a variety of literary genres from 1350-1940, such as comedy, elegy, satire, epic, ode, autobiography, detective story. [78L]

ENG140Y Literature For Our Time

An exploration of how twentieth-century literature responds to our world through major forms of poetry and prose, in texts drawn from a variety of national literatures. At least nine authors such as: Faulkner, Gordimer, Joyce, Morrison, Munro, Naipaul, Rushdie, White, Woolf; Beckett, Highway, O'Neill, Shaw, Soyinka, Stoppard; Eliot, Frost, Heaney, Page, Plath, Rich, Wayman, Walcott, Yeats. [78L]

NOTE: 200 level courses are open to students who have obtained standing in one full 100 level ENG course, or in at least four full courses in the Faculty. Students without this prerequisite may enrol in ENG201Y or ENG202Y if they are concurrently enrolled in any of ENG110Y, ENG120Y, ENG140Y. Students in a Specialist, Major, or Minor program in English are required to take either ENG201Y or ENG202Y.

ENG201Y Reading Poetry

An introduction to poetry, to its traditional forms, themes, techniques, and uses of language; its historical and geographical range; and its twentieth-century diversity. [78L]

Exclusion: ENG227Y

Corequisite: For students with fewer than four full credits, one of ENG110Y/120Y/140Y

ENG202Y Major British Writers

An historical and critical introduction to the study of British literature through a chronological consideration of works by at least fourteen of the following writers: Chaucer, Spenser, Shakespeare, Donne, Milton, Bunyan, Dryden, Congreve, Pope, Swift, Fielding, Austen, Blake, Wordsworth, Coleridge, Keats, Tennyson, Browning, Dickens, George Eliot, Joyce, Woolf, T.S. Eliot. Works will be selected to include all major literary periods and to include poetry, drama, and fiction. [78L]

Corequisite: For students with fewer than four full credits, one of ENG110Y/120Y/140Y

NOTE: Not all of the following courses are offered every year. For courses to be offered in 1998/99, please consult the Departmental handbook, "English at Erindale College," or the Erindale Timetable (both available in April).

ENG200Y The Bible and English Literature

An introductory study of the Bible's influence on literature in English. Selections from the Bible, Milton, Blake, Eliot. Other works to be chosen by the instructor. [78L]

ENG213H The Short Story

An introduction to fiction through short stories of various kinds, written mainly in the 19th and 20th centuries by such authors as Hawthorne, Poe, James, Conrad, Kipling, Joyce, Lawrence, Mansfield, Faulkner, Hemingway, Singer, Gallant. [39L]

ENG214H The Short Story Collection

A study of interrelated short story collections written and put together by such authors as Kipling, Joyce, Lawrence, Hemingway, Mansfield, Salinger, Roth, Laurence, Faulkner, O'Connor, and Gallant. [39L]

ENG215H The Canadian Short Story

A study of Canadian short fiction in English since its beginnings. A wide variety of regions, periods, styles, and writers will be considered. Works by authors such as Callaghan, Ross, Laurence, Gallant, Munro, Buckler, Hood, Hodgins, and Atwood will be included. [39L]

ENG216Y Twentieth-Century Canadian Fiction

A study of modern and contemporary Canadian fiction in English. Twelve or more works, including at least one by five of the following: Leacock, Callaghan, MacLennan, Wilson, Davies, Gallant, Richler, Ross, Buckler, Watson, Laurence, Wiseman, Kroetsch, Wiebe, Clarke, Munro, Atwood, Findley, Ondaatje. The course will include texts that reflect the contemporary state of Canadian fiction. [78L]

ENG220Y Shakespeare

Special study of not more than twelve plays by Shakespeare, including at least eight of the following: *Romeo and Juliet*; *A Midsummer Night's Dream*; *Richard II*; *Henry IV*, parts I and II; *Henry V*; *Twelfth Night*; *Measure for Measure*; *Hamlet*; *King Lear*; *Antony and Cleopatra*; *The Tempest*. Some non-dramatic poetry may be added. [78L]

ENG223H Canadian Drama

Canadian plays, with emphasis on major playwrights and on developments since 1940, but with attention also to the history of the theatre in Canada. [39L]

ENG233Y Major Women Writers

A study of at least eight and not more than twelve major women writers. The course will include works of poetry and fiction; drama and non-fiction may also be represented. [78L]

ENG234H Children's Literature

An historical and critical study of poetry, fiction and drama written for or appropriated by children. Works by at least twelve authors, such as Bunyan, Defoe, Stevenson, Carroll, Twain, Milne, Tolkien, Norton, and Andersen. [39L]

ENG236H Detective Fiction

At least twelve works by such authors as Poe, Dickens, Collins, Doyle, Chesterton, Christie, Sayers, VanDine, Hammett, Chandler, Faulkner, P.D. James, Rendell. [39L]

ENG237H Science Fiction and Fantasy

At least twelve works by such authors as M. Shelley, Poe, Stoker, G. Macdonald, Verne, Wells, Huxley, Orwell, Clarke, C.S. Lewis, Tolkien, Wyndham, P.K. Dick, Le Guin, M. Piercy, S. King, M. Atwood, W. Gibson. [39L]

ENG250Y American Literature

An introductory survey of major works in American literature through the study of approximately twelve representative writers. Works to be studied include: Hawthorne, *The Scarlet Letter*; Melville, *Moby-Dick*; Thoreau, *Walden* or Emerson, selected writings; Twain, *Adventures of Huckleberry Finn*; selected poems by Whitman, novels by James and Faulkner; selected poems by one of Eliot, Frost, Stevens. [78L]

ENG252Y Canadian Literature in English

An introductory survey of Canadian poetry, prose, and drama, consisting of the work of at least twelve writers, at least one of them of Native Canadian origin. At least one third of the material studied will date from before 1950, but attention will also be given to very recent work. The course will include works by at least eight of the following: Moodie, Lampman, Leacock, Pratt, Klein, Ross, Birney, Davies, Laurence, Reaney, Munro, Atwood. [78L]

ENG253Y World Literatures in English

A study of approximately twelve writers from diverse English-speaking cultures, for example, those of Africa, Australia, India, New Zealand, and the West Indies. Authors include at least six of the following: Achebe, Coetzee, Gordimer, Ngugi, p'bitek, Soyinka; Keneally, Stead, Stow, White; Narayan, Rao, Rushdie; Frame; Bennett, Braithwaite, Harris, Naipaul, Walcott. [78L]

ENG259Y Literature and the Environment

Writers have helped define for us what constitutes "nature" and our proper relationship to it in such forms as Renaissance pastoral, Romantic lyric, and modern fiction and poetry. The course will examine the role that literature has played in creating our awareness of the "environment." At least twelve works by writers such as Shakespeare, Marvell, Wordsworth, Coleridge, Thoreau, Emerson, Whitman, Dickens, Hardy, Pratt, Lawrence, Frost, Jeffers, Engel, Atwood. [78L]

ENG266H The English Vocabulary: Its History, Structure and Meaning

A study of the principles underlying the continual change of words and meanings that characterizes a living language. [39L]

NOTE: 300 level courses are open to students who have obtained standing in at least four full courses in the Faculty, at least one of which must be an ENG course. Students should note the special prerequisites for ENG369Y, ENG390Y, and ENG391Y, and they should consult the Department's brochure for instructions about applying for these courses.

ENG300Y Chaucer

The foundation of English literature: in their uncensored richness and range, Chaucer's works have delighted wide audiences for over 600 years. Includes *The Canterbury Tales*, with its variety of narrative genres from the humorous and bawdy to the religious and philosophical, and *Troilus and Criseyde*, a profound erotic masterpiece. [78L]

ENG302Y Poetry and Prose, 1500-1600

Poetry: Wyatt and Surrey, Sidney, Marlowe, Shakespeare, Spenser (including *The Faerie Queene*, at least two Books, and the *Mutabilitie Cantos*), and Donne. Other poets may be added. Prose: More, *Utopia*; and Sidney, *Defence of Poetry*. Selections from at least two of: Elyot; Ascham; Hakluyt; Hooker; Lyly; Sidney, *Arcadia*; Nashe and Deloney. Supplementary readings from such authors as Erasmus, Castiglione, Machiavelli, and Ariosto may be prescribed. [78L]

ENG304Y Poetry and Prose, 1600-1660

Literature in an age of Civil War, intellectual revolution, and religious upheaval, from Donne and Jonson to Milton and Marvell. Such prose writers as Bacon, Burton, Browne and Traherne will also be studied. [78L]

ENG306Y Poetry and Prose 1660-1800

Writers of this period grapple with questions of authority and individualism, tradition and innovation, in politics, religion, knowledge, society, and literature itself. Special attention to Dryden, Pope, Swift, Johnson, and at least six other authors. [78L]

ENG308Y Romantic Poetry and Prose

Poetry and critical prose of Blake, W. Wordsworth, Coleridge, Byron, P.B. Shelley, Keats; may include brief selections from other writers such as Crabbe, Dorothy Wordsworth, Scott, Landor, Mary Shelley, Clare, De Quincey. [78L]

ENG309Y Victorian Poetry

Special study of Tennyson, Browning, and Arnold; selections from Fitzgerald, Clough, C. Rossetti, D.G. Rossetti, Morris, Swinburne, Hopkins, Meredith, Hardy, Housman, or others. Selections from the critical writings of the period. [78L]

ENG322Y Fiction Before 1832

At least twelve works, including one or more by each of Richardson, Fielding, Sterne, Austen, and Scott. Three of the works will be: Richardson, *Pamela* or *Clarissa*; Fielding, *Joseph Andrews* or *Tom Jones*; Sterne, *Tristram Shandy*. [78L]

ENG324Y Fiction, 1832-1900

At least twelve works, including one or more by each of Dickens, Thackeray, Trollope, Emily or Charlotte Bronte, George Eliot, and Hardy. [78L]

ENG328Y Fiction, 1900-1960

At least twelve works, including one or more by each of James, Conrad, Joyce, Lawrence, and Faulkner. [78L]

ENG329H British Fiction Since 1960

At least six works by at least four contemporary British novelists, such as Beckett, Burgess, Fowles, Golding, Lessing, Spark, Thomas. [39L]
Exclusion: ENG217H

ENG332Y English Drama to 1642

The miracle play, the morality play, the Tudor interlude, early Tudor and Elizabethan tragedy, comedy and romance; two or more plays by Marlowe; Shakespeare, four and not more than seven of the following: *Love's Labour's Lost*, *Richard III*, *Much Ado About Nothing*, *As You Like It*, *Troilus and Cressida*, *Othello*, *Macbeth*, *King Lear*, *Coriolanus*, *The Winter's Tale*; two plays by Jonson; works by at least six other Jacobean dramatists. [78L]

ENG338Y Modern Drama

A minimum of twenty representative modern plays, one or more by at least five of Beckett, Churchill, O'Casey, O'Neill, Pinter, Shaw, Stoppard, Synge, Williams, Yeats; background readings from other dramatic literatures. [78L]

ENG339H Drama in English Since 1960

At least ten plays by at least six contemporary British and American dramatists, such as Pinter, Albee, Stoppard, Orton, Bond, Storey, Mercer, Griffiths, Shaffer, Shepard, Sackler, Terry. [39L]
Exclusion: ENG224H

ENG348Y Poetry, 1900-1960

Special study of Hopkins, Yeats, Pound, Eliot, Stevens; selections from other poets. [78L]

ENG349H Poetry in English since 1960

Works by at least six contemporary poets, such as Dickey, Ginsberg, Heaney, Howard, Hughes, Larkin, Lowell, Plath, Warren. [39L]
Exclusion: ENG229H

ENG358Y American Literature before 1880

Studies in nineteenth-century American literature focusing on writers of the American Renaissance. At least five authors from the following list will be studied: Emerson, Cooper, Poe, Stowe, Melville, Hawthorne, Thoreau, Fuller, Whitman, Dickinson, James. [78L]

ENG359Y American Literature 1880-1960

A study of major currents in American writing between 1890 and 1960, covering at least five authors such as James, Twain, Wharton, Dreiser, Dos Passos, Cather, Williams, Stein, Hemingway, Faulkner, Frost, Welty, Stevens, and Miller. [78L]

ENG361H American Fiction Since 1960

At least six works by at least four contemporary American novelists, such as Bellow, Doctorow, Hawkes, Mailer, Nabokov, Percy, Pynchon, Updike, Vonnegut. [39L]
Exclusion: ENG218H

ENG366Y Theory and Criticism of Literature

Major issues and movements in the theory of literature and literary criticism, with emphasis on the Twentieth Century. Among the movements to be studied are varieties of formal, psychological, and moral criticism and theory, feminist criticism, structuralism and post-structuralism. Authors to be studied may include such figures as Richards, Leavis, Brooks, Frye, Trilling, Barthes, Bloom, Eagleton, Barbara Johnson. [78L]

ENG367Y History of the English Language

The English language from Old English to the present day. Emphasis on specific texts, showing how linguistic techniques can be used in the study of literature. Texts: Robert D. Stevick, *English and Its History*; A.G. Rigg, *The English Language: A Historical Reader*. [78L]

ENG369Y Creative Writing

Restricted to students who in the opinion of the Department show special aptitude. [52S]
Prerequisite: Permission of instructor; portfolio must be submitted by May 10.

ENG390Y Individual Studies

A scholarly project chosen by the student and supervised by a member of staff. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project proposals must be submitted to the Associate Chair by June 1. Proposal forms are available in Room 227 (North Building). [TBA]
Exclusion: ENG490Y
Prerequisite: Three courses in English

ENG391Y Individual Studies (Creative)

A project in creative writing chosen by the student and supervised by a member of the staff. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project proposals must be submitted to the Associate Chair by June 1. Proposal forms are available in Room 227 (North Building). [TBA]
Prerequisite: Three courses in English, including ENG369Y

NOTE: With the exception of ENG490Y, 400 level courses are open to students who have obtained standing in at least nine full courses in the Faculty, including at least three full ENG courses. Students should consult the English Department brochure for details.

ENG405H/406H Studies in a Major Writer, Pre-1800 [26S]

ENG420H/421H Studies in a Major Writer, Post-1800 [26S]

ENG490Y Senior Essay

A scholarly project devised by the student and supervised by a member of the staff. The course is open to students enrolled in the English Specialist program or in Combined Specialist programs where it is an option. Proposal forms are available from the Department, and proposals must be submitted by June 1.

Exclusion: ENG390Y

Prerequisite: Fourteen full courses with at least four full courses in English; an overall B average in all English courses previously taken.

Program Coordinators:

Earth Science

(Specialist or Major)
Professor H.C. Halls

Environmental Analysis

(Specialist)
Professor U.J. Krull

Environmental Science

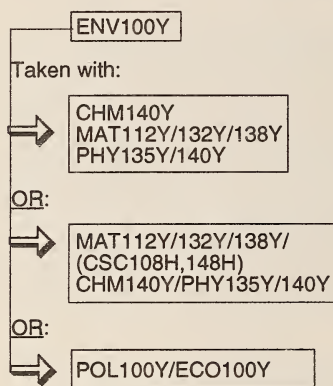
(Specialist or Major)
Professor B. Murck
Professor D.S. Munro
Professor N.C. Collins

Environmental Management

(Specialist or Major)
Professor A.P. Grima
Professor G.H.K. Gad

Environment at Erindale comprises four program areas: Earth Science (B.Sc.), Environmental Analysis (B.Sc.), Environmental Management (B.A.), and Environmental Science (B.Sc.) What distinguishes these programs of study is that: (1) They are **interdisciplinary** programs. This means that they require courses in more than one subject area, they have input from faculty members in a range of disciplines, and they emphasize cross-disciplinary cooperation and learning. (2) All of the programs begin with **ENV100Y**, The Environment (described below). This course **may** be taken by any student as an elective course or to satisfy a distribution requirement, but **must** be taken if you wish to enter one of the programs in Environment. (3) All of the specialist programs in Environment end with **ENV400Y**, a practical internship Environmental Research Project.

For further information, contact one of the Faculty Advisors or turn to the Programs section of the Calendar.



Leads to: **Earth Science**
(Specialist or Major)
OR
Environmental Analysis
(Specialist)

Leads to: **Environmental Science**
(Specialist or Major)

Leads to: **Environmental Management**
(Specialist or Major)

ENV100Y The Environment

This is a required course for all environmental programs at Erindale. The course examines large-scale features of the Earth, earthquakes, volcanoes, severe weather, climate change, energy, human population growth, extinction and biodiversity, environmental poisons, vanishing soils, expanding deserts, forests, and food resources. Interaction among science, social science and the humanities represents a major theme. [78L, 26T]

ENV317H Changing Ontario Environments

Survey of major Ontario habitat types with emphasis on prehistoric and historic changes. Modern environments will be placed in the context of past climatic and human influences. This course will require numerous field trips to local sites. A charge may be made to partially cover the cost of transportation provided for field trips. [13L, 52P]

Prerequisite: BIO205H

Recommended Preparation: ENV100Y, BIO330H

Offered in alternate years.

ENV400Y Environmental Internship

This course is a practical internship. Through a part-time, unpaid work commitment, you will apply the environmental expertise you have gained in your previous course work. Placements will be made at local conservation authorities, municipal planning departments, environmental consulting companies, environmental divisions of corporations, federal agencies, and other relevant organizations. **You must see the course coordinator before May 15 of the previous school year to apply for the course and complete a questionnaire.** The questionnaire concerns your previous course work and experience, and it will be the basis for deciding on your work placement. A major written report and presentation will be required at the end of the school year. These, along with the employer's assessment, will provide the main part of the course mark. Specialists in an Environmental Program will be given priority for admission because this course is a program requirement; if space is available, other students will be admitted according to the order in which they apply.
Prerequisite: Fourth Year Standing, P.I.

Faculty Advisor: Dean C.I. Rubincam
 (905) 828-5218

Under this heading are placed certain courses which, because of their interdisciplinary nature, are not part of the curriculum of a single academic department. Currently, courses in Canadian Studies, Cinema Studies, and Women's/Gender Studies are listed here.

ERI100H Liberal Arts and the Arts of Language

The traditional disciplines of grammar, logic and rhetoric are presented here as principles of language, of correct reasoning, and of effective discourse. This course helps students improve their foundation for any future work and study that requires attention to words, critical reading and reflective use of language. [26L, 13T]
Exclusion: SMC100H(G)

ERI112Y Introduction to Film Studies

An introduction to film history, major aesthetic approaches and the rudiments of film language. [26L, 78S, 26T]
Exclusion: INI112Y, NEW112Y, VIC112Y

ERI200Y Introduction to Women's/Gender Studies

Interdisciplinary study of gender issues. Different approaches, perspectives, and a variety of roles of men and women in contemporary society. Feminist theory. [78L]
Exclusion: NEW160Y
Recommended Preparation: 4.0 FCE

ERI300Y Feminisms and Related Liberatory Movements

This course will examine the history and development of feminist thought within the European and North American contexts. We will offer a critique of the rise of first, second, and third wave feminist movements, paying attention to the intersections between feminist thought and other liberatory movements that address race, class, sexual orientation, and able-bodiedness. [78L]
Exclusion: NEW360Y
Recommended Preparation: ERI200Y

ERI390Y Independent Studies

A reading and research project, chosen by the student and supervised by a faculty member, designed to integrate work in an Approved Area of Study. The project will culminate in the writing of a substantial essay. The supervisor will be chosen in consultation with the Program Co-ordinator. Open only to students enrolled in an Approved Area of Study. [TBA]
Prerequisite: Ten or more full-course equivalents and permission of the Program Co-ordinator.

ERI401Y Senior Essay

A major independent research project chosen by the student and supervised by a faculty member. All projects must be approved by the Committee on Canadian Studies by the end of classes in the previous year. Application forms are available from the Program Co-ordinator. [TBA]

Prerequisite: Open only to students with at least fifteen full-course equivalents and the permission of the Program Co-ordinator.

ERI402Y Selected Topics in Canadian Studies

A seminar course considering varied perspectives on Canadian themes or periods as presented by several disciplines. The topics to be studied will be decided in accordance with the special interests of the students involved. [TBA]

Prerequisite: Permission of the Program Co-ordinator.

ERI410H Independent Project in Women's/ Gender Studies

An opportunity to carry out an extended research project under the supervision of a faculty member. A proposal must be presented to the faculty member and consent obtained before the end of the July registration period.

Exclusion: ERI411Y

Prerequisite: ERI200Y, 2.0 FCE from list of electives for years II, III, and IV of program; and P.I.

ERI411Y Independent Project in Women's/ Gender Studies

An opportunity to carry out an extended research project under the supervision of a faculty member. A proposal must be presented to the faculty member and consent obtained before the end of the July registration period.

Exclusion: ERI410H

Prerequisite: ERI200Y, 2.0 FCE from list of electives for years II, III, and IV of program; and P.I.

Professors Emeriti:

L.E. Eleen, B.A., M.A., Ph.D.

T. Martone, B.A., M.A., M.A., Ph.D.

J. Caskey, B.A., M.A., M.Phil, Ph.D.

E. Levy, B.A., M.A., M.F.A., Ph.D.

B. Welsh, B.A., M.Phil., Ph.D.

Discipline Representative and

Faculty Advisor: Professor E. Levy
Room 120
North Building
(905) 828-3725

Program Coordinator: Professor A. Smith
Room 117
North Building
(905) 828-3725
Sheridan College
Trafalgar Rd. Campus
Room A201
(905) 845-9430,
Ext. 2580

Since the study of works of painting, sculpture, architecture and the minor arts provides insight into the nature of the societies in which they were created, it is one of the ways of gaining understanding of human culture in general. The creative process leading to the making of a work of art is a subject worthy of study in its own right. Students taking Fine Art courses learn methods through which art can be understood, as well as learning to make art. This field of study also complements related disciplines, such as History, Philosophy and Literature. Erindale College offers Specialist and Major programs in Art History and Art and Art History. The latter is a joint undertaking with Sheridan College; Art History courses (FAH) and other academic subjects are taught at Erindale College, and Studio Art (FAS) is taught at the Oakville campus of Sheridan College.

Specialization in Fine Art may lead to curatorial work in galleries, museums, corporations or teaching at the high school or university levels; careers in illustration and design, independent artistic activities or simply to the greater enjoyment of art. Both FAH and FAS courses are open to students in other disciplines who wish to pursue these subjects out of personal interest.

Students registering in their first year in Fine Art and Art and Art History, are advised to meet the Discipline Representative and Studio Advisor during the registration period for guidance.

All 200, 300 and 400 level Fine Art Studio courses must be balloted. Balloting is the process by which students interested in taking Fine Art Studio courses request permission to enrol. Although these courses are open to all students, priority will be given to students in the Art and Art History Program as studio space is limited. **Refer to the listing of Fine Art Studio (FAS) courses for detailed instructions about balloting.**

Courses offered every year: FAH101Y, 102Y, 200Y, 210Y. **Most courses offered in alternate years. Consult with the Departmental Secretary in Room 227.**

Balloting for Fine Art History courses normally begins in May.

FAH101Y Greek and Roman Art

The art of Greece and Rome. The importance of architecture and the arts as characteristic expressions of their age. Detailed study of the outstanding monuments. [52L, 26T]
Exclusion: FAH203H, 204H

FAH102Y Medieval Art and Architecture

A selective survey of the art of the Middle Ages. The study of Early Christian, Byzantine, Islamic, and Early and Late Medieval art and architecture will be combined with a more general introduction to the language of visual expression and its interpretation. [52L, 26T]
Exclusion: FAH261H, 262H

FAH200Y European Art from 1400 to 1750

Major forms of expression in the visual arts—architecture, painting and sculpture—with emphasis on the changing status of art in new political, religious and intellectual contexts. [52L, 26T]
Exclusion: FAH274H, 279H
Recommended Preparation: FAH101Y/102Y

FAH210Y European Painting and Sculpture from Neo-classicism to 1940

A discussion of the major movements in European art. [52L, 26T]
Exclusion: FAH287H, 288H, 378H, 404H
Recommended Preparation: FAH200Y

FAH213H Architecture in the Age of Historicism ca. 1750-ca. 1900

Major monuments of architecture and town planning in Europe and North America from the middle of the 18th century through the 19th century. [26L]
Exclusion: FAH212H
Offered at the St. George Campus.

FAH214H Modern Architecture Since 1890

Continuous with FAH213H, a study of the work of key figures in Europe and North America from the "early moderns" of the late 19th century through the "Modern Movement" to the present. [26L]
Offered at the St. George Campus.

FAH256H Ancient Rome

Development of the city of Rome, from early times to the Late Empire. Buildings and monuments and their place in the life of the ancient city. Readings in topography, art and architecture, and history. [26L]
Balloting Required.
Not offered in 1998-99.

FAH258H Pompeii, Herculaneum and Ostia

The public and domestic monuments of three ancient Roman communities, illustrating the daily life of the later Republic and the Empire, outside the capital city itself. [26L]
Not offered in 1998-99.

FAH268H Gothic Architecture

There are Gothic style great churches all over the world, yet the style originated in one place at one time. Study of origins, architecture and decoration of the Gothic Cathedral in the Ile-de-France, function and symbolism, intellectual and social contexts, and initial diffusion of the style to other countries. Considers post-Medieval Gothic as well. [26L]

FAH312H Painting and Sculpture in the United States

These arts in America since the late 17th century: their relationship to European traditions, the growth of distinctive national styles, and international interaction. [26S]
Balloting required.
Prerequisite: FAH200Y/210Y, P.I.

FAH313H Painting and Sculpture in Canada

These arts in Canada since the late 17th century: their relationship to European traditions, the growth of distinctive national styles, and international interaction. [26S]
Balloting required.
Exclusion: FAH286H
Prerequisite: FAH200Y/210Y, P.I.

FAH315H Realism

An examination of this mid-nineteenth century movement in French painting and sculpture with particular emphasis on Courbet, Millet, the Barbizon School, Daumier and Manet. [26S]
Balloting required.
Exclusion: FAH404H
Pre or Corequisite: FAH283H, P.I.
Recommended Preparation: A reading knowledge of French.
Not offered in 1998-99.

FAH318H Vincent Van Gogh and 19th Century European Painting

The role of this artist in relation to the Romantic, Realist, Impressionist, Neo-Impressionist and Symbolist movements in European painting. [26S]

Balloting required.

Pre or Corequisite: FAH210Y/283H/301Y, P.I.

Recommended Preparation: A reading knowledge of French, German or Dutch. Not offered in 1998-99.

FAH319H The Expressionist Tradition in Twentieth Century Painting and Sculpture

A continuation of FAH318H, the course concentrates upon such twentieth century masters as Matisse, Kirchner, Kandinsky, Nolde, Arp, Miro and Pollock, Borduas and Riopelle. [26S]

Balloting required.

Pre or Corequisite: FAH210Y/283H/301Y, P.I.

Recommended Preparation: A reading knowledge of French or German. Not offered in 1998-99.

FAH322H Romanesque Sculpture

A study of the dramatic explosion of architectural sculpture in 11th and 12th-century France and neighbouring countries: origins, sources of form and style, social, religious and functional contexts of selected monuments, also historiography. [26S]

Prerequisite: FAH102Y, P.I.

Not offered in 1998-99.

FAH332H Studies in Baroque Painting

Thematically organized treatment of major figures (Caravaggio, Carracci, Poussin) in the context of art theory and viewer response. [36S]

Prerequisite: FAH200Y/P.I.

Recommended Preparation: A reading knowledge of Italian or German

FAH337H Court Art and Patronage in the Middle Ages

Art and architecture of royal and imperial families from ca. 800 to 1400 in western Europe, including Norman, Capetian, Plantagenet and Hohenstaufen dynasties. Topics include role of courts in development and diffusion of new styles, and monuments as expressions of piety, chivalry, and political propaganda. **May be taken for credit for the Specialist/Major in Architecture/St. George.** [26S]

Prerequisite: FAH102Y/P.I.

Not offered in 1998-99.

FAH343H Pilgrimage

Experience of pilgrimage from an interdisciplinary perspective, with focus on major Christian and Islamic shrines in the middle ages. Monuments associated with sites such as Santiago, Jerusalem, and Mecca, as well as objects collected by pilgrims. **May be taken for credit for the Specialist/Major in Religion/UTM and in Christianity & Culture/St. George and in Architecture/St. George.** [26S]

Prerequisite: FAH102Y/P.I.

Not offered in 1998-99.

FAH353H Rome in the Age of Bernini

Architecture, urbanism and multi-media ensembles of Baroque Rome under Urban VIII, Alexander VII and Innocent X. With particular emphasis on the work of Borromini and Bernini in palace architecture, churches, piazzas, fountains and at the Vatican. **May be taken for credit for the Specialist/Major in Religion/UTM and in Christianity & Culture/St. George and in Architecture/St. George.** [26S]

Exclusion: FAH338H

Prerequisite: FAH200Y/P.I.

Recommended Preparation: Reading knowledge of Italian or German. Not offered in 1998-99.

FAH358H Fifteenth Century Painting South of the Alps

A study of the theory and practice of narrative painting. [26S]

Exclusion: FAH357Y

Prerequisite: FAH200Y or P.I.

Recommended Preparation: FAH101Y/102Y; reading knowledge of Italian. Not offered in 1998-99.

FAH378H Studies in Impressionism

The origin and development of this movement in painting, graphics and sculpture in France and in Europe from 1860 to 1886 with special emphasis on Monet, Renoir, Degas, Pissarro, Sisley, Cassat and Morisot. The course will concentrate on the evaluation of the style in relation to the intellectual, social and political context of the period. [26S]

Balloting required.

Prerequisite: FAH210Y/P.I.

Not offered in 1998-99.

FAH379H Studies in Post-Impressionism

An investigation of this movement in French painting and graphics, 1886-1896, with special emphasis on such masters as Van Gogh, Cezanne, Gauguin, Seurat, Toulouse-Lautrec, Redon, Bonnard, Vaillard and Denis. An examination of its theories and practices within the late 19th century artistic and social milieu, in and outside France. [26S]

Balloting required.

Exclusion: FAH316H, 311H

Prerequisite: FAH210Y/P.I.

FAH435H Women & Art in the Middle Ages

Why are there so few women in a survey of medieval art? An interdisciplinary study, including feminist analysis, of the roles of women in the Middle Ages, their representation in medieval art, and their impact on varying aspects of the art as subject, object, patron or artist. [26S]
Prerequisite: FAH102Y, P.I.

FAH441H Reformation and Counter-Reformation Art

Reformation tracts against images and iconoclastic outbreaks in Northern Europe. Response of Counter-Reform with new iconographies, historical accuracy in narrative, Early Christian revival in architecture, image-based devotional practices. **May be taken for credit for the Specialist/Major in Religion/UTM and in Christianity & Culture/St. George.** [26S]

Prerequisite: FAH200Y, one 300 or 400 level course in Renaissance or Baroque Art or P.I.
Recommended Preparation: French, Italian or German

FAH444H The Norman Achievement

Artistic accomplishments of the Normans in medieval Scandinavia, Normandy, England, and Sicily. Examines the role of art and architecture in the codification of political power, and the creation of art in the culturally diverse conquered lands. **May be taken for credit for the Specialist/Major in Religion/UTM and in Architecture/St. George.** [26S]

Prerequisite: FAH102Y plus one 200 or 300-level FAH

Not offered in 1998-99.

FAH447H Cubism and Related Movements

An investigation of the birth and development of Cubism, Futurism and Orphism in Europe, America and Canada. [26S]

Exclusion: FAH284H

Prerequisite: FAH210Y and a 300+ level half course and P.I.

Recommended Preparation: A reading knowledge of French or Italian.

Not offered in 1998-99.

Students must have prior permission of the instructor for the following courses:

FAH480H/481H Studies in Ancient Art

Students who have demonstrated unusual ability in earlier years will be encouraged to undertake, under the supervision of one or more staff members, special research projects culminating in a major research paper. Not more than two half-courses in Independent Studies may be taken in a single year.

Students must have written consent of their Faculty supervisor(s) and the Undergraduate Secretary before registering.

Prerequisite: Six FAH courses including a 300+ level half course and P.I.

FAH482H/483H Studies in Medieval Art

The same course description and prerequisites as FAH480H/481H.

FAH484H/485H Studies in Renaissance Art

The same course description and prerequisites as FAH480H/481H.

FAH486H/487H Studies in Baroque Art

The same course description and prerequisites as FAH480H/481H.

FAH488H/489H Studies in Modern Art

The same course description and prerequisites as FAH480H/481H.

(Studio Faculty)

J. Armstrong, B.F.A., M.A.
C. Arnoldin, B.F.A., M.F.A.
T. Bolliger, B.A., M.S.A.
J. Crossan, A.O.C.A.
L. Hague, B.F.A.
P. Harris, B.A.
P. Kipps, B.A.
C. MacDowall, B.A.E., M.F.A.
S. Rechico, B.Ed.
B. Scott, B.A., Dip. Fine Art
R. Sewell, B.A.
H. Simkins, B.A., Dip. Computer Graphics
A. Smith, B.A., M.A., M.F.A., Ph.D.

All FAS courses are offered on the Oakville Campus, Sheridan College. **All 200, 300 and 400 level Fine Art Studio courses will be balloted.** Balloting is the process by which students interested in taking Fine Art Studio courses request permission to enrol. Ballot forms and detailed instructions are available April 1 from the Fine Art Department, Room 227, North Building, Erindale College. (905) 828-3725 or from the Faculty of the Arts, Room C155, Sheridan College, 1430 Trafalgar Road, Oakville, Ontario, L6H 2L1. (905) 845-9430, Ext. 2571. Priority will be given to students in the Art and Art History program as studio space is limited.

FAS143H Drawing I

An introduction to drawing media and techniques combining practice with analysis of draughtsmanship. Includes technical and conceptual development. [78P]

FAS145H Painting I

An exploration of painting's formal elements, subject matter and various media. [78P]
Exclusion: FAS230Y(G)

FAS146H Design I

Fundamental concepts and design processes developed through manipulation and analysis of specific problems using micro-computer technology, as well as traditional studio methods. [78P]

FAS147H Photography I

Emphasis on interaction of technique, perception, and communication in making and responding to photographic images. Covers necessary technical aspects of the medium and darkroom procedures. [78P]

FAS232H Printmaking I

An introduction to print media with an emphasis upon relief and intaglio processes requiring experimentation and exploration of contemporary visual concerns. [78P]

FAS234H Printmaking II

A continuation of FAS232H with more formal investigations in relief, intaglio and silkscreen. [78P]

Prerequisite or Corequisite: FAS232H/P.I.

FAS243H Drawing II

This course uses drawing as a resource to develop work in a variety of materials and processes that may embrace both traditional practices and current technologies. Students are presented with issues to research and address through their work. [78P]

Prerequisite: FAS143H/P.I.

FAS245H Painting II

A continuation of FAS145H: to further expertise in major painting media and to further exploration of visual problems within the framework of 20th Century modes. [78P]
Exclusion: FAS230Y(G)

Prerequisite: FAS145H/P.I.

FAS246H Design II

A continuation of FAS146H: Students explore the historical and cultural conditions that have influenced the language of objects with the aid of micro-computer technology. [78P]

Prerequisite: FAS146H/P.I.

FAS247H Photography II

A continuation of FAS147H, this course further develops the use of the camera, light and light-sensitive materials for visual communication and personal expression. Investigations of historical and contemporary uses of the medium will emphasize both technical and aesthetic considerations. [78P]

Prerequisite: FAS147H/P.I.

FAS248H Three-Dimensional Materials

This course explores the application of three-dimensional concepts through direct manipulation of both contemporary and traditional materials. [78P]

FAS330Y Past and Present Techniques of Painting and Drawing

A practical and historical investigation of techniques used in painting and drawing. Critiques and field trips will complement studio work. [156P]

Prerequisite: Any FAS200H level course or any FAH100Y level course and P.I.

FAS332Y Computers and Art

A studio introduction to the applications of computer graphics systems in the visual arts, including basic technical information and discussion of the aesthetic and social issues involved in making "Art" with computers. [156P]

Prerequisite: FAS146H, and P.I.

FAS334Y Printmaking III

A continuation of FAS234H emphasizing lithography and silkscreen. Greater focus upon individual development with attention to production, quality, and technical expertise. [156P]

Prerequisite: FAS234H/P.I.

FAS343Y Drawing III

A continuation of FAS243H; personal inquiry will result in a series of related pieces which form a body of work. [156P]

Prerequisite: FAS243H/P.I.

FAS345Y Painting III

A continuation of FAS245H. Greater attention will be given to individual development in the perceptual and conceptual understanding of contemporary art. [156P]

Exclusion: FAS331Y(G)

Prerequisite: FAS245H/P.I.

FAS346Y Design III

A continuation of 246H. This course poses similar problems on an advanced level. [156P]

Prerequisite: FAS246H/P.I.

FAS347Y Photography III

Contemporary and historic photographic practices establish the basis for individual experimentation and critical discussion. The process of constructing images and the development of personal imagery is emphasized. [156P]

Prerequisite: FAS247H/P.I.

FAS348Y Sculpture

An exploration of contemporary concepts, images and materials in three-dimensional works inspired by natural forms or culturally derived order on space. Students will be required to render three-dimensional works in a variety of materials. [156P]

Prerequisite: FAS248H/P.I.

FAS343Y Individual Investigations in Printmaking

Students must present both written and oral proposals for their term studies. The final submission and evaluation shall consist of a portfolio and/or exhibition of original prints, test experiments, and evidence of research resulting from the students' investigations. [156P]

Prerequisite: FAS334Y and P.I.

FAS445Y Individual Investigations in Painting

Students develop a cohesive personal body of work reflecting an understanding of contemporary art practice. Written statements of intentions and procedures required. [156P]

Prerequisite: FAS345Y and P.I.

FAS447Y Individual Investigations in Photography

Individual projects exploring themes or issues using photography are established and evaluated in the context of contemporary critical practice. [156P]

Prerequisite: FAS347Y and P.I.

FAS448Y Individual Investigations in Sculpture

Students formulate their own positions through written and oral proposals. From this a body of three-dimensional works reflecting issues associated with contemporary sculptural practice is produced. [156P]

Prerequisite: FAS348Y and P.I.

Students must have Departmental permission for the following courses:**FAS450Y Advanced Project**

An independent project chosen by the student and supervised by Faculty member(s). A written proposal must be submitted to and approved by the Department before registration. No student may take more than one Advanced Project full course equivalent in a single year. [156P]

Prerequisite or Corequisite: 1.0 FAS 400 level course

FAS451H Advanced Project

An independent project chosen by the student and supervised by Faculty member(s). A written proposal must be submitted to and approved by the Department before registration. No student may take more than one Advanced Project full course equivalent in a single year. [78P]

Prerequisite or Corequisite: 1.0 FAS 400 level course

FAS452H Advanced Project

An independent project chosen by the student and supervised by Faculty member(s). A written proposal must be submitted to and approved by the Department before registration. No student may take more than one Advanced Project full course equivalent in a single year. [78P]

Prerequisite or Corequisite: 1.0 FAS 400 level course

Anthropology

J. Melbye, B.A., M.A., Ph.D.

Biology

W.R. Cummins, B.Sc., Ph.D.

D.L. Gibo, B.A., Ph.D.

P.A. Horgen, B.A., M.Sc., Ph.D.

Chemistry

U.J. Krull, B.Sc., M.Sc., Ph.D.

Psychology

K.R. Blankstein, B.A., M.A., Ph.D.

L. Krames, B.A., M.A., Ph.D.

Program Coordinator: Professor J. Melbye
Room 227
905) 828-3726

Forensic Science is the application of any scientific inquiry into criminal investigation. As such, the field is interdisciplinary in nature and practical in application. Faculty members are necessarily drawn from many fields of science to apply their special expertise, experience and knowledge to criminal investigation. The program is designed to provide the student with a broad base of knowledge about different aspects of scientific applications; and, at the same time, allow the student to emphasize one particular aspect in greater detail. We accomplish this goal through the requirement of a double major. The major in Forensic Science will provide the general background, and the second major will provide additional depth into one of the subfields. Entry into the Forensic Science major is limited. After completion of four full course equivalents including Chemistry and Calculus or Computer Science, a Cumulative GPA of 2.70, and enrolment in an approved second major (see Programs, Section 8 for details), application for admittance may be made to the Program Coordinator by June 1, 1998. Forms are available in Room 227 during regular office hours. The introductory course into Forensic Science is FSC239Y which may be included in the candidates selection of first-year courses. FSC239Y is a basic survey of the field, and is open to all students of the College. The remaining courses in the second and third year of the Forensic Science major are selected from other disciplines (see listing under Programs) to provide the student with a broad spectrum of relevant applications of forensic science. Normally, candidates in the Forensic Science major will include FSC439Y in the final year of their program. FSC439Y is a special course only open to majors. The course is directed by a mentor who will be any

member of the Forensic Science Faculty. The selection of mentor is based on the special field of interest of the student. The mentor and student may work on a research project or may be teamed with a forensic unit or related facility where the student will spend at least one day a week observing and/or working as an apprentice. All mentors and students in the course will meet once a month to present progress reports. A final research paper will be required.

The selection of the second major is limited. While other majors must be approved by the Program Coordinator, the following are approved:

Anthropology with emphasis on forensic anthropology

Biology with emphasis on forensic biology, whole organism biology or cell and molecular biology

Chemistry with emphasis on forensic chemistry

Each of these majors has basic departmental requirements which must be fulfilled. In addition to these basic requirements, there are provisions for a number of options. The Forensic Science program provides recommended courses among these options to direct student preparation for a career in their chosen field of interest.

Increasingly, forensic scientists are being employed to investigate homicides and suspicious deaths, mass disasters such as airplane crashes and floods, and political atrocities such as those that have occurred in recent years in other places around the world. Most students with a B.Sc. may seek employment with various police agencies. Police agencies are looking for candidates who fulfill the basic requirements for police officers plus have special knowledge in forensic science. The program is also good preparation for advanced degrees in medicine, law, and laboratory science.

FSC239Y(1) Forensic Science

Forensic science is the application of any scientific inquiry into criminal investigation. The results of such inquiry are ultimately for presentation in courts of law. Specialists in forensic science will lecture on a variety of topics which will include crime scene investigation, the role of the coroner, forensic pathology, forensic chemistry, forensic botany, forensic entomology, forensic anthropology, forensic dentistry, psychology and toxicology. Case studies will be reviewed, and the role of the expert witness will be examined. [52L]

FSC439Y Mentorship in Forensic Science

A research paper or term paper is required. Placements are largely dependent upon availability of positions and may involve a research project or part-time work in a forensic unit or related facility. Forensic units include the Centre of Forensic Science, the Chief Coroner's Office of Ontario, and a variety of local police agencies. Students will be teamed with a faculty co-ordinator and an appropriate expert in the field of interest.

NOTE: Students must have one free day (Monday - Friday) to work in a placement position.

Prerequisite: Enrolment in Forensic Science Major

C. Elkabas, B.A., M.A., Ph.D.
C. Evans, LèsL., M.A. Ph.D.
M. Lord, B.A., M.A., Ph.D.
E. Nikiema, LèsL., M.A., Ph.D.
D.A. Trott, B.A., M.A., Ph.D.

Adjunct Professors:

C. Besnard, (York University)
A. Mollica, (Brock University)

Associate Chair and

Faculty Advisor:

Professor C. Elkabas
Room 246, North Bldg.
(905) 828-5373

The French program at Erindale offers students a wide range of courses designed to provide the basis for the study of our French heritage.

For students wishing to pursue a program leading to a high level of competence in French, we offer two series of language courses: FSL100H, 102H, 121Y, 163H, FRE180Y, FSL261Y, for non specialists; FRE180Y, FSL280Y, 382H, 383H, for specialists, maximizing contact with instructors and using modern methods. In addition, students wishing to improve their language competence in the oral skills, have access to a state-of-the-art audio-lingual laboratory and, for the written skills, to a variety of computerized aids in the computer laboratory. Native speakers of French are not permitted to take for credit FSL100H, 102H, 121Y, 163H, 383H, FRE180Y. Such students, however, will be admitted to any FRE course for which FRE180Y is a prerequisite.

For those wishing a full program of French Studies, our offerings satisfy the requirements for certification in French Language and Literature, Teaching and Learning of French and Italian, and French Language and Linguistics. These offerings comprise a variety of fields: French as a language system (including Business French); critical approaches to literature; teaching and learning French (including teaching with new technology); and the study of both French and Québec Literatures.

A fuller description of the French program is available in the **French Handbook**, which is produced in the spring. It is available from the French Department Secretary, Room 227, North Building, Tel. (905) 828-3726 or from the Associate Chair's office, Room 246. It is an essential supplement to the Calendar and students are urged to consult it. Erindale's French graduates have moved on to advanced studies and to careers in business, teaching, translation, transportation and other fields where skills in French are a necessity.

NOTE: Completion of at least 3.0 courses in the Specialist program and an average of 70% in 2.0 of the 3.0 courses, may entitle a student to participate in third year in the Study Elsewhere Program in France or at Laval, Québec.

The series FSL163H/261Y, which may be taken as part of a Minor program, is intended to provide instruction for students specializing in other disciplines who wish to develop a practical knowledge of French. The series emphasizes self-help beyond the limits of the individual courses.

NOTE: Students who are not specializing or majoring in French may be admitted to French courses in Literature and Linguistics, with permission of the Department, if they demonstrate the appropriate level of competence in French. Students seeking admission to FSL121Y will be required to provide a high school record as evidence of their level in French. Particularly well-qualified students may, as the result of a language proficiency test, be permitted to enrol in 200 level language courses.

NOTE: The following is a guide for first year course selection.

FSL100H No knowledge of French (no secondary school studies).
FSL102H Very limited knowledge of French (Grades 9 or 10 maximum).
FSL121Y Intermediate knowledge of French (Grade 11 or old Grade 12).

FSL163H/FRE180Y
Secondary School graduation
French-core program (OAC or Grade 13).

Consult Department
Extended French (OAC - Extended)

FSL200 level
Immersion French (OAC - Immersion)

Consult Department
French-language schooling

Courses offered every year:

FSL100H,102H,121Y,163H,261Y,280Y,382H,383H,FRE180Y,190Y,240Y,272Y,375Y,JFI225Y

FSL100H Introductory French I

An intensive basic course in spoken and written French: comprehension, speaking, reading and writing. [39S, 26P]

Exclusion: FRE101Y

Not open to native speakers of French. Not open to students who have studied French in secondary school.

FSL102H Introductory French II (for students with Prior Learning)

An intensive basic course in spoken and written French for students who have studied some French, but who have not yet attained the entry level for FRE121Y. [39S, 26P]

Exclusion: FRE101Y/Grade 11 French or higher. Not open to native speakers of French.

Prerequisite: FSL100H or permission of Department

FSL121Y Intermediate French

Spoken and written French, reinforcing oral/aural competence, reading comprehension, and writing skills. [78S, 26P]

Exclusion: FRE121Y/OAC French. Not open to native speakers of French.

Prerequisite: FRE101Y/FSL102H/Grade XI French or placement by the Department.

FSL163H Practical French

Development of competence in listening and speaking skills as well as improvement of pronunciation. Materials drawn from a variety of contemporary sources. [39S]

Exclusion: FRE161Y/171Y/FSL160H/183H/OAC French (Immersion). Not open to native speakers of French

Prerequisite: FRE121Y/FSL121Y/OAC French or placement by the Department. Strongly recommended to intending Specialists and Majors.

FRE180Y Introduction to French Studies

A broad introduction to French studies combining: the social and cultural history of France, as a guide to understanding its literature; readings from major literary movements; and a systematic study of grammar and composition through a variety of exercises designed to improve accuracy and logical structure in written French. [39L, 39S]

Exclusion: FRE150H/150Y/161Y/171Y/FSL181Y/182H

Prerequisite: FRE121Y/FSL121Y/OAC French or placement by the Department.
Recommended Co-requisite: FRE190Y

FRE190Y Aspects of French Cultures

A multimedia examination of major elements of francophone culture in such diverse areas of the world as Europe, Canada, the West Indies and Africa. Lectures, readings and assignments in English. Films will be subtitled in English. [52L, 26T]

Note: Students enrolled in this course who submit all written work and exams in French may petition the Department for credit towards a Specialist or Major in French.

JFI225Y Teaching and Learning a Second/ Foreign Language

In this course, students will learn how language teaching methods have evolved since the 1960s. Different teaching approaches (behaviourist, audio-visual, communicative, cognitive and humanistic) will be examined with special emphasis on the teaching of the four skills (reading, writing, listening, speaking) and culture, on the roles of the teacher and the learner in the classroom. This course will be taught in English. [26L, 26T]

Note: Students enrolled in this course who submit all written work in French or Italian may petition their Department for credit towards a Specialist or Major in the particular discipline.

Prerequisite: FRE180Y and/or ITA200Y/210Y (or equivalent) or permission of the Department.

FRE240Y Introduction to Literary Analysis

Techniques of literary criticism and analysis, based on a detailed study of selected novels, drama and poetry from the 17th century to the present. [52L, 26T]

Pre or Co-requisite: FRE180Y (or equivalent) or permission of the Department

FSL261Y Practical French II

Emphasis is placed on both reading and listening comprehension, expression, both written and oral, and self-instruction.

Particularly intended for students who wish to maintain and improve their general knowledge of French without wishing to specialize. [78S]
Exclusion: FSL280Y/282H/283H/262H/263H.
Not open to native or fluent speakers of French.

Prerequisite: FRE180Y or equivalent/OAC French Immersion.

FRE272Y The Structure of Modern French: An Introduction

A descriptive study of contemporary French: phonetics and phonology, morphology, syntax and semantics. Theoretical discussion in general linguistics. [52L]

Prerequisites: FRE180Y or equivalent

FRE273Y General History of the French Language

The changes by which the Latin spoken in northern Gaul became today's French. Phonetic, morphological, syntactic and semantic evolution; regional, dialectal and social variations; the question of French in Canada; attitudes of writers, grammarians, and scholars, etc; political and social history. [52L]

Prerequisite: FRE180Y or equivalent
Not offered in 1998-99.

FSL280Y Language Practice II: Written and Oral French

(Formerly FSL282H/283H)

Improvement of the four language skills (writing, reading, listening and speaking) for students specializing in French studies at the university. [52S, 26P]

Exclusion: FSL261Y/262H/263H/282H/283H/ FRE271Y

Prerequisite: FRE180Y or equivalent/OAC French (immersion) or placement by the Department.

FRE312H Québec Novel II: The Quiet Revolution

The evolution and revolution of contemporary Quebec fiction. [26T]

Exclusion: FRE310Y

Prerequisite: Any 200 level FRE "Specialist" course

Recommended Preparation: FRE210Y/240Y
Not offered in 1998-99.

FRE317H Québec Theatre II: Contemporary Directions

The affirmation of Quebec theatrical forms: search for new dramatic structures. [26T]

Exclusion: FRE311Y

Prerequisite: Any 200 level FRE "Specialist" course

Recommended Preparation: FRE210Y/240Y

FRE320Y Literature of Classicism

Major writers of the seventeenth century, with emphasis upon the aesthetic and moral characteristics which constitute "classicism". [26L, 26T]

Exclusion: FRE220Y

Prerequisite: Any 200 level FRE "Specialist" course

Recommended Preparation: FRE240Y
Not offered in 1998-99.

FRE322Y The Literature of the Enlightenment

The revolution in social, political, religious and intellectual values which characterized the literature of the 18th century. [26L, 26T]

Prerequisite: Any 200 FRE "Specialist" course
Recommended Preparation: FRE240Y

FRE335H Teaching and Learning French with New Technology

An introduction to the use of computers, as well as theories underlying such use in the area of French language and literature studies. Students will examine several computer programs in order to assess their pedagogical benefits. They will also learn the teaching and learning of French as a second language via electronic mail as well as the applications of computer programs for literary analysis of texts. [13L, 13T]

Prerequisite: Any 200 level FRE "Specialist" course.

FRE345H Teaching and Learning French Since the 1970s

The aim of this course is to present recent research and classroom applications in two important domains of teaching and learning French as a second language:

1. A review of the history of French immersion in Canada including the pedagogical implications of early, late and partial immersion. Immersion programs as well as teacher training will be evaluated with reference to methodological approaches.
2. An examination of the theoretical issues in reading and listening comprehension and strategies for improving these two skills. [13L, 13T]

Prerequisite: Any 200 level FRE "Specialist" course

FRE364Y Prose Fiction from 1800-1900

The ways in which such writers as Balzac, Stendhal, Flaubert, Maupassant and Zola developed the techniques of the novel while exploring such themes as ambition, alienation and class struggles. [26L, 26T]

Exclusion: FRE364H/365H

Prerequisite: Any 200 level FRE "Specialist" course

Recommended Preparation: FRE240Y

Not offered in 1998-99.

FSL366H Writing French: Language of Business

A study of vocabulary, grammar and writing techniques involved in business situations (e.g. economics, industrial relations, banking, marketing). [39S]

Exclusion: FRE301H

Prerequisite: FSL261Y/262H/280Y/282H

FRE367H Early Twentieth Century French Novel

Prose fiction of the first half of the twentieth century including works by Proust, Gide, Malraux, and Bernanos. [13L, 13T]

Exclusion: FRE426Y

Prerequisite: Any 200 level FRE "Specialist" course

Recommended Preparation: FRE240Y

FRE368H From the Existentialist Novel to the New Novel

Problems of form and theme in selected novels by Sartre, Camus, Robbe-Grillet and Butor. [13L, 13T]

Exclusion: FRE426Y

Prerequisite: Any 200 level FRE "Specialist" course

Recommended Preparation: FRE240Y

FRE375Y Comparative Stylistics

A comparative study of the characteristics of French and English expression and how they pertain to the problems of translation. [26P, 26T]

Exclusion: FTR375Y(G)

Prerequisite: FSL282H/any 200 level FRE "Specialist" course

FRE376H French Phonology and Phonetics

A study of the phonological system of modern French based on actual samples of speech taken from different regional varieties and socio-economic groups. [13L, 13T]

Prerequisite: FRE272Y

Not offered in 1998-99.

FRE378H French Syntax

A study of the distribution and relationships of the syntagmatic components of contemporary French, the sentential structure including the principle of coordination, subordination and expansion. Theoretical approaches. [13L, 13T]

FSL382H Language Practice III: Written French

Consolidation of writing skills already acquired by students specializing in French studies, with emphasis on advanced process writing techniques. [39S]

Exclusion: FRE380H. Open to francophones with permission of the Department

Prerequisite: FSL282H/280Y

FSL383H Language Practice III: Oral French

Consolidation of oral production and aural comprehension. [26S, 13P]

Exclusion: FRE381H. Not open to native speakers of French

Prerequisite: FSL280Y/283H

FRE434H Advanced Topics in Québec Literature (The Short Story)

A study of the evolution of the forms and contents of the short story in French, from its beginnings in the 19th century, with the folktales, to its latest development of the postmodernism. The approach is based on discourse analysis, and its evolution. Special attention will be given to the question of genre and subgenre. [13L, 13T]

Prerequisite: Any 200 level "Specialist" course or permission of the instructor

Recommended Preparation: FRE210Y/240Y

Not offered in 1998-99.

FRE435H Literary Theory

A study of the theories of comic (irony, humour, parody, satire) and their practical application to literature. Readings from representative authors. [13L, 13T]

Prerequisite: Any 200 level FRE "Specialist" course or permission of Instructor

Recommended Preparation: FRE210Y/240Y
Not offered in 1998-99.

FRE436H Advanced Topics in French Literature: The Masterworks of the French Short Story

A study of the greatest collection of short stories in France. Romantic and Modern authors will be analyzed in order to comprehend the ways each deals with dreams, reality, love and fantasy. [13L, 13T]

Prerequisite: Any 200 level "Specialist" course or permission of the instructor.

Recommended Preparation: FRE240Y

FRE476H French Semantics

Various approaches to the notion of meaning; its functioning at all levels of representation. [13L, 13T]

Exclusion: FRE388H/476Y

Prerequisite: FRE272Y

Not offered in 1998-99.

FRE489H Advanced Topics in Linguistics: French and Italian Syllable Structure

A comparative approach to the study of various phonological processes of contemporary French and Italian. Students will be introduced to current issues on the representation of syllable structure and to problems of syllabification. Emphasis will be put on the examination of French and Italian data, and the synchronic functioning of the two languages. Other aspects of modern phonology will also be discussed. [13L, 13T]

Prerequisite: FRE272Y

FRE490Y Senior Essay

An independent research paper on either a literary or linguistic topic to be proposed by the student and supervised by an instructor, culminating in a major research paper.

Prerequisite: Permission of the Department

FRE491H Independent Study

A scholarly project supervised by a member of staff on a literary or linguistic topic of common interest, including readings, discussions and papers.

Prerequisite: Permission of the Department

FRE492H Independent Study

A scholarly project supervised by a member of staff on a literary or linguistic topic of common interest, including readings, discussions and papers.

Prerequisite: Permission of the Department

Professors Emeriti:

L. A. Gale, B.A., D.T.S., C.L.S.
 G. Gracie, B.A.Sc., Ph.Eng., Ph.D., P.Eng.
 R.C. Gunn, B.A.Sc., M.A.Sc., M.Sc., P.Eng.,
 O.L.S.
 D.W. Lambden, B.Sc.F., Dip. T.C.P.,
 F.R.I.C.S., F.I.S. Aust., M.N.Z.I.S.,
 C.L.S., O.L.S.

F. Csillag, B.Sc., M.A., Ph.D.
 G.H.K. Gad, Dr.Phil., Ph.D.
 A.P. Grima, B.A., M.A., Ph.D.
 G. Hopper, B.A., M.A., Ph.D.
 C.J. Houston, B.A., M.A., Ph.D.
 T.F. McIlwraith, B.A., M.A., Ph.D.
 D.S. Munro, B.Sc., M.Sc., Ph.D.
 V.B. Robinson, B.S., M.S., Ph.D.
 R.R. White, B.A., M.Sc., Ph.D.
 J.K. Young, B.Eng., M.Eng., P.Eng., C.L.S.,
 O.L.S.

Associate Chair: D.S. Munro

Faculty Advisors: Professors G.H.K. Gad,
 T.F. McIlwraith and Mr. K. Turner

Departmental Secretary: G. Chung, Room
 A3106, (905) 828-5465

NOTICE:

The program in Geomatics (or Surveying Science) may be completed within the Department of Geography by students who have enrolled in the program not later than June 30, 1996, provided they complete all required courses by May, 1998. Please contact Faculty Advisor, Professor J.K. Young, Room 3111, or telephone (905) 828-3864.

Geography studies the processes which have brought about current use of the environment and the patterns of human settlement. It integrates the viewpoints of science, social science and humanities.

Geography draws on the earth sciences to understand variations in the physical environment, and on the social sciences and humanities in order to understand the way human beings create and organize regions, economies and landscapes. Geomatics and Geographical Information Systems are further aspects of the discipline, focused on the acquisition, management and display of spatial information. By combining their interest in physical and human processes, geographers have a unique role in studying environmental deterioration and in developing policy alternatives for dealing with it.

The geography curriculum stresses the integrative nature of the discipline. Students take courses in both physical and human geography and proceed through a sequence of courses of increasing depth, reinforcing and building on knowledge developed at previous stages. Staff expect high levels of verbal, written, numerical, and graphical skills.

Field studies are an important component. They complement lectures, provide material for workshops, develop skills in geographical methods, encourage student involvement in basic enquiry, and build student-staff cooperation. Field work takes place on the College grounds, in the metropolitan area nearby, and further afield in rural Ontario. Field courses have been held in Vancouver, Montreal, the tundra of Iceland, the medieval cities of Europe, and the Florida Everglades.

Geography offers both B.A. and B.Sc. programs. Other programs coordinated by the Department include Environmental Management (B.A.), Environmental Science (B.Sc.), Geographical Information Systems (B.Sc.) and Geomatics (B.Sc.).

Geography has close links with other disciplines and interdisciplinary programs, and students in other fields should find many courses within Geography that complement their interests and expertise. From literature to geology, chemistry to history, fine art to economics, geography offers new ways of combining and developing knowledge.

The following courses are counted as Science courses for distribution and program purposes: ENV100Y

GGR215H, 217Y, 261H, 276H, 304H, 305H, 307H, 309H, 310H, 315H, 316H, 319H, 321H, 322H, 335H, 337H, 338H, 341H, 362H, 372H, 374H, 375H, 376H, 377H, 379H, 394H, 395H, 406H, 407H, 408H, 417Y, 423H, 442H, 463H, 479H, 488H.

All other GGR courses listed in this Calendar are considered to be "non-Science."

The following courses are scheduled to be offered every year:

ENV100Y, 400Y; GGR117Y, 215H, 217Y, 228Y, 234H, 261H, 276H, 310H, 340H, 341H, 345H, 375H, 393H, 417Y, 442H

All other courses may not be offered every year.

ENV100Y The Environment

For description see **Environment** courses.

GGR117Y Introduction to Geography

Introduction to geography and a basic understanding of geographic principles. Natural systems at both global and meso-scales: energy budgets, climate, hydrological cycle, landscape forms and process, biological systems, soils and environmental change. Human systems and human-environment interactions. Populations, natural resources, economic analysis. [52L, 26P]

GGR215H Introduction to Geomatics

Acquisition of data by field survey methods, and processing these data to determine positions and direction. Field-note procedures. Preparation of maps of physical and cultural phenomena. The course includes two days at field station, for which there is a small fee. [26L, 39P]

Exclusion: GGR219H, SUR201H

Prerequisite: GGR117Y/ENV100Y, OAC Mathematics

Corequisite: GGR217Y and GGR218Y for Geography Major and Geography Specialist students

GGR217Y Physical Geography

Physical geography is examined in terms of the various systems which make up the earth's environment. This is done descriptively and mathematically in order to prepare students for more advanced studies. Field techniques, analytical methods and relevance to environmental problems are stressed. [52L, 26P]

Prerequisite: GGR117Y/ENV100Y

Corequisite: GGR218Y/228Y and GGR215H for Geography Major and Geography Specialist students

Recommended Preparation: MAT112Y/132Y/138Y

GGR228Y The Human Geography of Canada

Introduction of human geography themes as demonstrated by Canadian growth and change. Key concepts include demography, social institutions, economic change, multiculturalism, regional disparity, and others. Historical processes and cultural landscape will be emphasized. [52L, 26P]

Exclusion: GGR318Y

Prerequisite: GGR117Y/ENV100Y/8.0 FCE

Corequisite: GGR217Y and 215H for Geography Major and Geography Specialist students.

GGR234H Environmental and Resource Management

Principles of environmental and natural resource policy in the context of ecologically sustainable development. World-view with a Canadian focus. Emphasis on institutional instruments. Cases-in-point include acid rain, air and water quality and forest resources. [26L]

Exclusion: GGR233Y

Prerequisite: ENV100Y/GGR117Y/BIO151Y

GGR247H Regions, Provinces and Regionalism in Canada

Contemporary patterns and their development. Problems and attitudes within heartland-hinterland and provincial-federal contexts. [26L]

GGR255H Perspectives On Current Population Issues

Current discussions on the "population problem" are examined in light of historical writings. Optimum population size and political strength and the tradition of pessimism in population theory. [26L, 13P]

GGR256H Recreation Geography

Introduction to spatial organization and economic impact of recreation. Prediction of demand, problems of over-use, ecological risks, conflicts of interests, planning perspectives, Canada's tourist trade. [26L, 6T]

GGR261H Introduction to Geographical Information Systems

Data sources, algorithmic requirements, analytical performance, project management. Computing Systems, databases, thematic mapping and spatial analysis will be introduced. [26L, 26P]

Exclusion: GGR272H, SUR261H

Prerequisite: ENV100Y/GGR117Y

GGR276H Geographic Information Processing and Mapping

Problem-solving approach to the use of computers in geography. Data processing, spreadsheets, graphics, mapping. [13L, 26P]

Exclusion: CSC104H

Prerequisite: GGR117Y/ENV100Y

GGR304H Climate Near the Ground

Elements of microclimatology as they apply to the environment of plants and animals. The role of the surface in controlling energy and water exchange within bioclimatic systems will be emphasized. The movement of contaminants will also be discussed. [26L, 13P]

Prerequisite: GGR217Y/PHY237H

Offered in alternate years.

GGR305H Biogeography

Analysis of past and present plant and animal distributions, and of the environmental and biological constraints involved. The course emphasizes the impact of continental drift, Quaternary climatic changes and human interference on contemporary patterns. [26L]

GGR307H Soil Management

Application of soil geography to problems of resource use and management. Soil erosion processes and conservation techniques. Soil water management. Drainage and reclamation of wetland soils. Soil pollution issues. Soil capability classification. Selected problems of soils in arid and semi-arid regions, the humid tropics, as well as the Arctic and sub-Arctic. [26L, 13P]

Prerequisite: GGR217Y

GGR309H Wetlands: Function and Process

Formation and distribution of wetlands, with emphasis on temperate and subarctic systems in Canada; their hydrology, biogeochemistry and ecology. Use and management of wetlands, and wetlands as functional ecosystems. Participation in a one-day weekend field trip is required. [26L, 13P]

Exclusion: GGR305H (1994-95)

Prerequisite: GGR217Y/P.I.

GGR310H Problems in Biogeography

Changing relationship of people and the biosphere with an emphasis on land transformation and habitat fragmentation effects on species distribution, movement, and diversity, with emphasis on patch analysis, connectivity, fragmentation analysis, and corridors. Various research methods are discussed and work is done with bird count surveys and geographic information systems. [26L]

Prerequisite: GGR217Y, 261H, or P.I.

GGR315H Hydrology

Examination of hydrological processes with emphasis on the terrestrial systems. Rainfall and snowfall processes and prediction, interception, evaporation, soil infiltration and moisture, groundwater movement, runoff production via overland flow and throughflow processes, forest and urban hydrology. Emphasis is placed on substantial field experience. Students are expected to participate in a class project. [26L, 13P]

Prerequisite: GGR217Y/P.I.

GGR316H Hillslope Geomorphology

Systems approach to hillslope geomorphology studies; processes of erosion and deposition; mass wasting; slope forms of humid and arid regions; process-response models; applied aspects. [26L, 13P]

Prerequisite: GGR217Y

GGR319H Field Studies

Mission-oriented investigation of physical and cultural phenomena. Field observations and samples collected, analyzed, and reported in seminar. This course involves full-day projects in the week in September preceding the start of regular classes. [39P]

Prerequisite: ENV100Y/GGR117Y/GGR217Y/228Y

Recommended Preparation: GGR215H/261H

GGR321H Geographic Information Processing

Introduction to the storage and analysis of geographic information by computer. [13L, 26P]

Prerequisite: GGR261H

GGR322H Global Positioning Systems and Gravimetry

GPS, gravity, gravitational potential, theory of orbits, the geoid, tides, height systems. [26L, 26P]

Exclusion: SUR322H

Prerequisite: GGR320H/SUR320H

GGR325H Economic Geography

Modern theoretical geography, spatial economics, and regional science. Analysis of spatial form, transport process, land use theory, locational analysis, central place theory, human movement in geographical space. Planning and policy questions. [26L]

GGR329H Rural and Resource Landscapes

Process of land exploitation over many centuries; the rural/agricultural landscapes that have emerged. Case studies of food, clothing and shelter. Examples from Europe and USA. [26L, 13T]

Exclusion: GGR218Y

Prerequisite: GGR117Y, 228Y/3.0 full course equivalents in Social Sciences or Humanities at 200+ level, or P.I.

GGR333H Energy and Society

The evolution of mankind's ability to control and manipulate energy. Forms of energy and use; energy eras and transitions; the role of economic development; environmental consequences of consumption. The limits of technology and the future for low-energy societies. [26L, 13T]

Prerequisite: Any 8.0 full course equivalents

Recommended Preparation: GGR117Y/ENV100Y

GGR334H Water Resources Management

Canadian problems in water resource management; a selection of topics related to policy will be covered, e.g. forecasting the demand for water, inter-basin and international water transfers, industrial and urban water supply and wastewater management, flood/drought as natural hazards, the Great Lakes, water supply in developing countries. [26L, 13T]

Prerequisite: GGR234H

Offered in alternate years.

GGR337H Environmental Remote Sensing

Monitoring environmental change; soil-water-plant system. Remotely sensed digital images. Computer-assisted interpretation, preprocessing and pattern recognition. Resource mapping and modelling. [26L, 26P]

Exclusion: SUR337H

Prerequisite: GGR217Y/261H/362H

GGR338H Environmental Modelling

(Formerly GGR335H)

An application of environmental models to contemporary problems of decision-making. The course will demonstrate the relevance of techniques of data management (statistics, computer systems) to issues facing Canada and the global community. [26L, 13P]

Prerequisite: Any 8.0 full course equivalents, including GGR276H; a course in Statistics recommended.

GGR340H Urban Environment

(Formerly GGR317Y)

The impacts of urbanization on the environment in the context of the State-of-the-Urban-Environment Reporting. Environmental and natural resource policies with particular reference to an urban ecosystem such as the Greater Toronto Area. [26L, 13T]

Prerequisite: GGR117Y, 215H/261H, 217Y, 218Y/228Y, or P.I.

GGR341H Land Management

Fundamentals of obtaining site information to provide the framework for land development. Elements of the municipal infrastructure. Legal and engineering aspects of land drainage. [26L, 13T]

Exclusion: SUR341H

Prerequisite: GGR215H

GGR344Y Geography of Russia

A survey of the geography of Russia and its neighbours in the Commonwealth of Independent States. [52L]

GGR345H Environmental Issues in the Developing World

The course analyzes those issues that are environmental priorities in the developing world, such as water supply, deforestation, soil erosion and waste management. These are compared with the atmospheric concerns that are paramount in richer, industrialized countries. [26L]

Prerequisite: Any 8.0 full course equivalents

GGR346H The Urban Planning Process in Canada

Introduction to planning as a conscious collective activity which can or actually does shape the city. Reflection upon the nature of urban planning, rather than discussion of particular urban development issues is emphasized. Major themes: the legal framework of planning in Ontario, outline of planning history, current issues in planning practice. The course may include one week-long internship in a planning office. [26L]

Prerequisite: GGR218Y/228Y/8.0 full course equivalents in the social sciences

GGR349H Suburbs in Transition

The origin of modern suburbs, a critique of these suburbs, and their continuing transformation in physical, economic, and social terms. Major workshop component pursued in collaboration with municipal planning departments in the Toronto area. Half-year credit, spread out over whole academic year. [26P]

Prerequisite: GGR218Y/228Y/361H; 8.0 social science full course equivalents

GGR359H Geographies of Cities in History

The process of urbanization and especially the physical, economic and social development of cities between European Antiquity and the early 20th century. This history will be examined critically in terms of shaping current urban patterns and the ways of current thinking about cities. [26L, 13T]

Exclusion: GGR218Y

Prerequisites: GGR117Y, 228Y/3.0 full course equivalents in Social Sciences or Humanities at 200+ level, or P.I.

GGR361H Understanding the Urban Landscape

Deciphering change in the physical form of neighbourhoods, including a substantial amount of field work in the inner city. Review of the evolution of urban form and introduction to the interplay of private and public forces that shape the built-form of Canadian cities. [26L, 13P]

Prerequisite: At least 8.0 full course equivalents

GGR362H Mapping in the Social and Environmental Sciences

A working knowledge of map-making. Data sources, map content, projections, classification, generalization, scale. Point patterns, shapes, networks. Quantitative and qualitative display of spatial information. [26L, 13P]

Exclusion: SUR362H

Prerequisite: Any 8.0 full course equivalents

Recommended Preparation: GGR276H

GGR363H The Seas

The relationship of mankind to the oceans, from ancient to modern times: exploration, trade, migration, technology, oceanic resources, ports, coastal land use, and sovereignty. The seas in lore and literature. [26L, 13T]

Prerequisite: At least 8.0 full course equivalents

GGR364H Historical Geography of Ethnic Groups in Canada

The creation and survival of ethnic communities in Canada with particular emphasis on rural settlements. Aspects of ethnic territoriality, the stability of ethnic communities, and the adaptation of immigrants to the Canadian environment. [26L]

GGR365H The Geography of World Trade

The course uses the geographical paradigms of areal differentiation and locational analysis to investigate the dynamics of trade at a global scale. Following a review of these paradigms and an introduction to evolving patterns of world trade, the student will select a commodity for intensive study. [26L, 6T]

Exclusion: GGR489H (1989-90)

GGR366H Historical Toronto

Toronto's history from beginnings in 1793 to 1950s. Emphasis on City of Toronto, but "suburban" expansion after 1914 is also considered. Selected aspects are the economy of the city, the changing location of places of work, the emergence and change of neighbourhoods (including immigrant and "ethnic" areas); the evolving infrastructure and built form of the city. Students are introduced to a range of primary sources available for the study of Toronto's history. [13L, 13P]

Prerequisite: At least 8.0 full course equivalents

GGR367H India and South Asia

A regional survey of the physical, social and economic landscape of India and neighbouring states of South Asia, with special emphasis on current developments. Roots of ancient civilization, cultural divisions and the drive for national unity, colonial and post-colonial politics, international relations. Natural resources, population pressure, economic development, social change. [26L, 6T]

Exclusion: GGR489H in 1995-96

Prerequisite: Any 8.0 full course credits

Recommended Preparation: GGR218Y/234H

GGR368H Historical Geography of Ontario

Ontario from its founding to the early 20th century: settlement and ethnic roots, agriculture, transport, industrial growth and urbanization. The cultural landscape and regional literature will receive attention. [26L, 13T]

Prerequisite: At least 8.0 full course equivalents

GGR372H Geographical Analysis of Land Resources

This course focuses on the nature of land resources as can be described by quantitative and/or qualitative geographic data. Patterns, regions and processes of the soil-water-plant system will be emphasized. Lectures will highlight analysis and synthesis, interactions and models. Special attention will be paid to hierarchies and scale in space and time. [26L, 13P]

Prerequisite: 1.0 FCE from GGR 200 level courses

Recommended Preparation: GGR261H/321H

GGR375H Physical Environment of the City

The physical structure of the city results in a distinctive local climate which is linked to air and water quality, as well as energy use. A geographical information system is used to assemble physical information from which to model the urban climatic environment, taking the example of the Toronto area. Particular emphasis is placed upon the role of field measurements as a source of geographical information. [26L, 13P]

Exclusion: GGR317Y

Prerequisite: GGR117Y, 215H/261H, 217Y, 218Y/228Y, or P.I.

GGR376H Hydrogeology

An introduction to the principles of groundwater flow with emphasis on their application to the development of groundwater supplies, construction dewatering, and contaminant migration. The main components of the course are: theory of groundwater flow, well drilling procedures and construction, data collection and evaluation, groundwater chemistry, groundwater assessment procedures, dewatering system design, and simple groundwater models. [26L, 13P]

Prerequisite: OAC Chemistry/CHM140Y, GGR217Y

GGR377H Monitoring Environmental Change

The search for evidence of environmental change over time, especially as documented in weather records. Skills needed to distinguish trends from cycles over time are learned by examining data collection techniques and analytical procedures which apply to a campus weather station. This knowledge is used to assess the reliability of conclusions drawn from other types of time series information. [26L, 13T]

Prerequisite: GGR217Y, STA220H, 221H

GGR379H Advanced Field Methods in Physical Geography

Structured around field work, the course will include at least one major field trip. Students will be responsible for reading selected articles relating to the study areas prior to visiting the field. Projects will involve mapping of physical features (i.e., geologic structures, vegetation, soil, water) on a preliminary basis from aerial photographs in the laboratory and subsequently in the field. The intention is to conduct the major field trip outside Southern Ontario to provide a contrasting environment for the students (who, it is assumed already have some familiarity with the local area). [39P]

Prerequisite: Any 3.0 courses drawn from one or more of the following: Physical Geography, Geology and Biology

GGR380H Communicating with Maps

Maps as a form of language, expressing prose and tabular information visually and spatially. The description of patterns of evidence in thematic maps. Map analysis and criticism. Use and misuse in geography and the mass media. [13L, 26P]

GGR389H Advanced Field Studies in Human Geography

This course involves students in advanced methods of field work in human geography. Emphasis is placed on the integration and interpretation of documentary evidence (historical and archaeological) with the physical evidence in the field, including the interpretation of landscape change. A one week field camp in a North American locale is required. [39P]

Prerequisite: P.I.

GGR393H Methods of Environmental Assessment

Methodologies for measuring and predicting the impact of development on the bio-physical and socio-economic environments. Environmental assessment, law and institutions, environmental mediation, monitoring, mitigation, evaluation, risk assessment. The types of impact assessment methods examined vary from year to year (e.g. economic IA, ecological IA). [26L, 6P]

Prerequisite: ENV100Y, ECO100Y/POL100Y

Corequisite: GGR234H

GGR394H Special Topics in GIS

Studies of selected topics in Geographic Information Systems not covered in regular courses.

Prerequisite: P.I.

GGR395H Special Topics in Geomatics

Studies of selected topics in Geomatics not covered in regular courses.

Prerequisite: P.I.

ENV400Y Environmental Research Project

For description see **Environment** courses.

GGR406H Physical Hydrology

Principles of hydrological and water resource systems, in the study of surface/groundwater interaction, modelling hydrological processes, and current water resource issues and transport of pollutants. [26L]

Prerequisite: GGR315H/376H

GGR407H Water Quality and Stream Ecosystems

Landscape controls on water chemistry of streams. Small watershed ecosystems approach and hydrological flowpath-chemical interaction perspective. Students will be exposed to field and laboratory work and expected to conduct independent study. [26L]
Prerequisite: GGR309H/315H/376H; OAC Chemistry, or P.I.

GGR408H Contaminant Hydrogeology
Behaviour of chemical contaminants in groundwater. Mass transport in saturated zone, advective-dispersive theory, inorganic contaminants, non-aqueous phase liquids. Data collection, modelling; groundwater remediation. [26L]

Exclusion: GGR409H, GLG355H
Prerequisite: GGR315H/376H

GGR417Y Research Project

Designed to give students experience in the definition and execution of a research study under the guidance of a member of Faculty. [13P]

Exclusion: All other courses in independent research

Prerequisite: Completion of 3rd year requirements for the Major/Specialist programs in GGR.

GGR423H Applications of Geodetic Methodology

Applications in surveying, geophysics and engineering. Criteria for selection of method, design and implementation of sample projects, assessment of results. [26L, 26P]

Exclusion: SUR423H

Prerequisite: GGR322H/SUR322H

GGR442H Subdivision Planning

Development of land within the concept of the Official Plan. Subdivisions, condominiums and general site development and approval procedures. [26L, 13P]

Exclusion: SUR442H

Prerequisite: GGR341H/SUR341H

GGR463H Advanced Geographic Information Processing

Data structures for spatial information systems. Hardware and software for geographical and land information systems. Spatial search and geoprocessing. An introduction to graph theory and topology. The use of artificial intelligence language. [26L]

Exclusion: SUR463H

Prerequisite: GGR261H/SUR261H/
GGR362H/SUR362H or any data management or information science course approved by instructor.

GGR479H Special Topics in Physical Geography

An advanced seminar dealing with topics in physical geography, to be selected according to staff and student interests. [26P]

Prerequisite: P.I.

GGR488H Geostatistics

Accuracy of spatial databases. Advanced error models of geographic data. Uncertainty. Spatial variability, sampling and estimation. Map comparison, interpolation, simulation. Applications in environmental and social sciences. [26L, 13P]

Exclusion: GGR489H (1994-95)

Prerequisite: 0.5 full course equivalents of STA courses at 200+ level; 1.0 FCE 300+ level courses in GGR

GGR489H Special Topics in Human Geography

An advanced seminar dealing with topics in human geography, to be selected according to staff and student interests. [26P]

Prerequisite: P.I.

GGR493H Special Topics in Environmental Management

An exploration of theories, research techniques and policy options relevant to the understanding and solution of environmental issues such as sustainable development, risk management and environmental assessment. [26L]

Prerequisite: 5.0 courses from the Environmental Management Major

GSC courses have been renumbered as ERS courses (Earth Science).

C. Saas, B.A., M.A., Ph.D.

*Discipline Representative and
Faculty Advisor:* Professor C. Saas
(905) 828-5275

For more than a thousand years the German countries have been the cultural and political core of Central Europe. During the last two hundred years their importance has steadily increased, and with the recent developments in eastern Europe their influence seems bound to grow even further.

The importance of the German language has grown correspondingly: it is the second foreign language after English in the countries of eastern and southeastern Europe, and its use is spreading within the European Community. Learning German opens the door to many fields of intellectual, technical and politico-economic endeavour. German scholars have been leaders in Philosophy, the Sciences, History, Archaeology, Sociology and Political Science, while German literature is equally distinguished, with writers like Goethe, Kafka, Rilke, Brecht, Mann, etc., who have dealt with the widest possible range of human problems and concerns. Significant works of German literature from the Middle Ages to the present are the focus of the range of literature courses offered, allowing the student to acquire an historical overview of this element of German life and culture.

The Department of Germanic Languages and Literatures offers a variety of language courses on the beginners', intermediate and advanced levels. Courses have been designed to teach the clear comprehension of German texts, to practice translation and the oral use of the language, to develop stylistic skills, and to train students in the specialized vocabulary and concepts of business. The Department also tries to promote opportunities for students to study and work in Germany, where possible, by encouraging participation in programs mounted with the help of the German government. In addition it offers help to students who wish to take part in the "Third Year Abroad" program by advising them on course choices and by keeping in touch throughout their time in Germany.

Instruction in Dutch and Yiddish is also offered on the beginners' and intermediate levels.

A knowledge of German is a virtual necessity for specialists in certain disciplines; it is also very useful in certain career areas (e.g., the foreign service, interpretation and translation, librarianship, business and commerce, music, tourism, and, of course, teaching). The successful completion of a four-year program, including seven approved courses in German, may entitle the student to enter the M.A. or Ph.D. program in the Graduate Division of the Department.

Students coming in with some previous knowledge of German but without an O.A.C. qualification may be asked to write an initial assessment test and will then be advised to take courses at the appropriate level. Students who have taken German in High School to O.A.C. level will normally begin with course GER202Y.

Students who desire information regarding German studies are advised to confer with Professor C. Saas (828-5275), Room 258C, North Bldg.

NOTE: Students with German-speaking background are expected to consult the Department about their programs. Reading lists for the various courses are available from the Department.

GER100Y Introductory German

An intensive language course for students with no previous knowledge of German. Practice in comprehension, reading, writing and speaking. [130P]

Exclusion: OAC German/GER101H
This is a Language course.

GER101H Introductory German: Continuation

An intensive language course for students who have studied German, but who have not quite attained OAC level. Practice in comprehension, speaking, reading, and writing. This course is the spring term of GER100Y. [65P]

Exclusion: OAC German/GER100Y
This is a language course.

GER202Y Introductory German II, Reading and Review

Continuation of work done in GER100Y/101H. Expansion of basic grammar and vocabulary, practice in comprehension, translations, compositions, and conversation. [104P]

Exclusion: GER200Y(G)
Prerequisite: OAC German/GER100Y/101H
This is a language course.

GER204Y Introduction to German Literature

An introduction to the study of German literature and literary concepts. Texts are chosen which are linguistically accessible to students who are still developing their reading skills and which are interesting and representative of a period or genre. Required for Majors and Specialists. [78S]

Prerequisite: OAC German or GER100Y/101H
This is a Literature course.

GER232H German Drama in Translation

Representative dramas of the 19th and 20th centuries by such authors as Büchner, Hauptmann, Wedekind, Kaiser, Brecht and Dürrenmatt will be analyzed in depth and the dramatic forms highlighted. When available, a film version of the drama will be discussed. [39S]

GER235Y German Culture in a European Context

An overview of contemporary German culture and its historical roots, with special emphasis on Germany in the European context. Issues such as German identity, the quest for empire, church-state relations, the culture of court and city, urbanization and industrialization, and the conflict of ideologies in the recent past. Knowledge of German not required. [78S]

GER300Y Intermediate German 1

German at the intermediate level: extension of vocabulary, specific problems of grammar, practice in translation, essay-writing, reading and conversation. Students taking this course and intending to specialize in German must take a second-year literature course as well.

The Department reserves the right to place students in the appropriate course in the series GER200Y, 300Y, 400Y, 450Y [104P]

Prerequisite: GER200Y(G)/202Y
This is a Language course.

GER324Y Nineteenth-Century German Literature

(Formerly GER224Y)
Literature from Romanticism, Biedermeier, and the political activism of young Germany to the age of Realism and the unification of Germany under Bismarck; authors such as Eichendorff, Heine, Büchner, Keller, Droste-Hülshoff, and Fontane. [78S]

Prerequisite: GER204Y
This is a Literature course.

GER334H Drama: The Twentieth Century

Varieties of German, Swiss, and Austrian drama, from the beginning of the century to the present; playwrights such as Hofmannsthal, Schnitzler, Kaiser, Brecht, Frisch, Dürrenmatt, and Straub. [39S]

Exclusion: GER420H(G)
Prerequisite: GER224Y
This is a Literature course.

GER351Y The Development of German Cinema

(Formerly GER251Y)
German cinema from its beginnings as an art form to its current renaissance. Includes films by such directors as Murnau, Herzog and Fassbinder. Knowledge of German not required; previous film studies experience not required. [52S, 52P]

GREEK

GER355Y The Theatre of Bertolt Brecht

This course will offer - in English translation - a close reading of selected plays by Brecht, and an investigation of his dramatic theories and stage techniques. Credit for programs in German may be given upon consultation with the instructor, and upon reading the works in German. Available to first and second year students by permission of the instructor. [78S]

GER370Y Business German 1

An introduction to the use of German in the business context. Building on grammar and vocabulary knowledge already acquired, the course enables the students to correspond and converse in basic business situations. [78P]

Prerequisite: GER200Y(G)/202Y

This is a Language course.

GER400Y Intermediate German II

(Formerly GER310Y/350Y/402Y)

Study of idioms, translation, essay writing, reading, problems of grammar and oral practice. The Department reserves the right to place students in the appropriate course in the series GER202Y/300Y,400Y,450Y [78P]

Prerequisite: GER300Y

This is a Language course.

GREEK

(SEE CLASSICS)

GRK100Y Introductory Classical Greek

Introduction to the language and preparation for the reading of Classical Greek literature.

[52L]

Exclusion: GRK101H,102H

Not offered in 1998-99.

HISTORY

S. Aster, B.A., M.A., Ph.D.

R.E. Johnson, B.A., Ph.D.

C. La Vigna, B.A., Ph.D.

L. S. MacDowell, B.A., M.Sc., Ph.D.

D.P. Morton, B.A., B.A., M.A., Ph.D.

A.C. Murray, B.A., Ph.D.

R.W. Pruessen, B.A., M.A., Ph.D.

D.L. Raby, B.A., Ph.D.

W.B. White, A.B., M.S., Ph.D.

Discipline Representative and

Faculty Advisor: A.C. Murray

Room 272, North Bldg.

(905) 828-3735

ERINDALE HISTORY HANDBOOK. A fuller description of the History program is available in the *History Handbook*, which is produced in early April. It gives detailed information on course outlines, timetabling and program requirements, and is available from the **History Department, Room 227, North Building, phone (905) 828-3725.** It is an essential supplement to the Calendar, and students are urged to consult it.

History is exclusively neither an art nor a science, but a subtle blend of the two. The historical imagination reaches beyond the limits imposed by scientific method, but it does not enjoy unfettered poetic license. What is not required of art is required of history - to discover what the old universe was like rather than to invent a new one. We study the past in order to influence, no matter how modestly, the world around us and the world within us. Historical inquiry is always a response to the human need for information, an understanding of the broad patterns of social development. Concentration in history can provide students with the analytical skills and intellectual judgement required in a number of fields. From academic research and teaching to a career in publishing, journalism or the media, the historian's contribution is substantial. Training in history is appropriate preparation for a career in law or in government service, for example, as a researcher, archivist or policy analyst.

The History program at Erindale is designed to give students a comprehensive view of the modern world. Strong core areas in European, Canadian and American History are supplemented by courses in British, Russian, Latin American and Third World History. As well, courses in ancient Greek and Roman History are offered by the Classics Department. Introductory 100 and 200 level courses are normally conducted as a combination of lecture and tutorial; more advanced courses are often offered as seminars, allowing students experience in independent research and in presenting their findings.

Students must register annually, beginning in their second year, with the History Secretary (Room 227, North Building), to ensure their progress through the program.

Courses offered every year: HIS102Y;200Y;220Y;262Y;271Y;479Y.

All 400 level courses require balloting. Please see the History Secretary (Room 227, North Building) for details.

HIS102Y Introduction to History

This course, taught jointly by the entire History faculty, explores what history is and what historians do. It has been designed to benefit both the History specialist and the student who may wish only to take this one course in History. [52L, 26T]

Exclusion: HIS108Y,109Y

All 200 Level courses are open to first year students.

HIS200Y(I) Europe, 1300-1700

A survey of Europe in the Early Modern period, showing the origins of the process of modernisation which later became world-wide. [52L, 26T]

Exclusion: HIS243H,244H

HIS204Y(I) History of Italy

A general survey of the history of Italy: political, social, economic and cultural. [52L, 26T]

Not offered in 1998-99

HIS220Y(I) The Shape of Medieval Society

An introductory survey of European history from the late Roman Empire to the fourteenth century outlining the major developments that account for the shape of medieval civilization and its influence on subsequent centuries. [52L, 26T]

HIS236Y(I) Modern Britain

The major themes of British history from the late seventeenth century - the emergence of industrial society, evangelical humanitarianism, parliamentary democracy, dynamics of foreign and imperial policy, the rise and fall of the welfare state, and the impact of total war. [52L, 26T]

Exclusion: HIS231Y,234Y,239H,238H,341H,338Y

HIS241H(I) Europe in the 19th Century

An introduction to the principal themes of western European history from the French Revolution to the 1890's. [26L, 13T]

Exclusion: HIS249Y

HIS242H(I) Europe in the Contemporary Era

The evolution of European politics, culture, and society from 1890: the origins and consequences of the two world wars, the Bolshevik Revolution and Stalinism, Fascism and Nazism, the post-1945 reconstruction and division of Europe. This course is essentially a continuation of HIS241H. [26L,13T]

Exclusion: HIS249Y

HIS249Y(I) Modern Europe, 1815-1956

An introduction to the principal themes of western and central European history from the age of Napoleon to the 1950s. It explores the changing relations between state and society before 1890, the origins and consequences of the two world wars, Fascism, Nazism, and the post-1945 division of Europe. [52L, 26T]

Exclusion: HIS241H,242H

Not offered in 1998-99

HIS250Y(I) History of Russia

Origins of Russian history, paganism and Christianity, Mongol influences, Muscovite autocracy, westernization to 1800. The imperial regime; the radical intelligentsia; the Revolution and the establishment of the Soviet regime; the Stalin revolution in agriculture, industry, and society; foreign relations; and the demise of the Soviet Union. [52L, 26T]

HIS262Y(I) History of Canada

A survey of Canadian history, beginning with native cultures, then examining both French and English Canada. Themes such as industrialization, urbanization, Canada at war, social and political movements, immigration patterns and regional differences are discussed. Lectures and readings cover different approaches to Canadian history. [52L, 20T]

HIS271Y(I) American History Since 1607

A survey of significant developments in American history (e.g., the American colonies, the Revolution, the Civil War, industrialization, the effects of the Cold War) and important characteristics of American society (e.g., social mobility, racism, imperialism). Lectures and readings will combine the perspectives of political, social, economic and diplomatic history. [52L, 26T]

HIS290Y(I) Latin America: From Conquest to Revolution, 1492 - the Present

Major themes in the history of South and Central America and the Caribbean from the time of Columbus to the present. Discussion will focus on such issues as nationalism, development and underdevelopment, revolution, militarism and cultural identity. [52L, 26T]

Exclusion: HIS289H,290H

HIS300H War, the Military and American Society

How Americans have approached, experienced and been affected by war, and the development and sociology of the military establishment, beginning with the nature of early modern warfare and its application in Anglo-America through United States involvement in the Gulf War. [26L]

Recommended Preparation: HIS271Y

Not offered in 1998-99

HIS308Y The History of Women

A broad survey of women in European society from ancient to modern times. [52L]

Recommended Preparation: A course in European history

Not offered in 1998-99

HIS307H The Russian Revolutions of 1917

The fall of the Romanovs and the coming to power of the Bolsheviks have been controversial. This course examines interpretations of the 1917 events using original sources from 1917 in English. [26L]

Prerequisite: 1.0 course in modern European history.

HIS309H Anglo-Saxon England

Political, institutional and social history of England from the fifth to the eleventh centuries. [26L]

Prerequisite: A course in medieval history/ P.I.

Not offered in 1998-99

HIS311Y Introduction to Canadian International Relations

Canadian international affairs in a broader context. Anglo-American as well as Canadian-American relations; the European background to questions such as the League of Nations, appeasement and rearmament, which directly affected Canada without this country being consulted. [52L]

Recommended Preparation: A course in Canadian history or politics

Not offered in 1998-99

HIS313Y Canadian Labour

A study of working people and their ethnic, racial and gender differences, of the Canadian labour movement since the 1830s, and of Canadian radicalism. Social, economic and regional themes are included as is the study of the changing world of work and technology. [52L]

Prerequisite/Corequisite: HIS262Y/ECO244Y

HIS314Y French Canada Since the Conquest

The development of the French-Canadian community under leaders such as Papineau, Laurier, Duplessis and Trudeau. The course traces Quebec's economic development, and the birth and evolution of its nationalism. Novels and films provide insight into this enduring culture, both in its home province and elsewhere in North America. [42S, 10L]

Prerequisite: HIS262Y

Not offered in 1998-99

HIS315Y The German Lands, 1517-1871

A study of the prominent themes in the history of the German-speaking lands from the Reformation to the second empire. Topics studied include the Reformation, the territorial state, absolutism and the Baroque, the Enlightenment and enlightened absolutism, Romanticism, and the process of unification. [52L]

Prerequisite: A course in early modern or modern European history.

HIS318Y Canadian Environmental History

A historical survey (16th century to the present) which describes the Canadian environment, how and why it changed and attitudes to the environment. Themes include exploration, native-European encounters, settlement, industrialization, resource exploitation; ideas of Christians, scientists, naturalists; modern movements; policy formation; law; selected case studies. [52L]

Prerequisite: 8.0 FCE

HIS319Y France and Germany 1848-1945

A comparative study of the development of France and Germany from the revolutions of 1848 to the end of the Second World War. Emphasis will be on the interaction of economic, social and political developments - including the diplomatic relations between them - but students will be free to pursue topics in intellectual and ideological history. [52L]

Not offered in 1998-99

HIS324H Bandits & Pirates in Latin America and the Caribbean

Analysis of patterns of banditry from colonial times to the present. Theories of banditry: Hobsbawm's "social bandits", the Robin Hood myth, the "avenger". Piracy and the Caribbean buccaneers. Case studies including Pancho Villa (Mexico), Lampião (Brazil), Henry Morgan, etc. [26L, 13T]

Exclusion: HIS315Y

Prerequisite: HIS290Y

Recommended Preparation: Read E.J. Hobsbawm, *Bandits*.

Not offered in 1998-99

HIS326Y History of Women in Canada, 1600-1920

(Formerly HIS326H)

This course samples the experience of women in various regions of Canada from pre-contact times through the First World War. Was Iroquoian society a matriarchy? Were women in New France more "liberated" than their 19th century granddaughters? Other topics include Victorian "respectability", domestic servants, fur trade women, prairie homesteading, and the suffrage campaign. [26S]

Exclusion: HIS359H, 459H

Prerequisite: P.I.

Recommended Preparation: HIS262Y

Not offered in 1998-99

HIS327Y From Antiquity to the Middle Ages: Europe 300-800

Lecture course on the transition from ancient to medieval civilization. Emphasizes the character of the source material and its role in shaping the interpretations of modern historiography. [52L]

Exclusion: HIS326Y/424Y

Prerequisite: Course in ancient or medieval history.

Not offered in 1998-99

HIS329Y The Conflict of Nationality in Modern Ireland

A topical analysis of modern Irish history concentrating on the conflict of constitutional, social, revolutionary and cultural nationalism. Topics include Fenianism, Home Rule, the 1916 rising, the partition of Ireland and the 'time of trouble' in Northern Ireland since 1968. [52L]

Exclusion: SMC348Y

HIS335H Conquest and Resistance in Colonial Mexico, 1519-1821

The Spanish Conquest of Mexico and indigenous resistance; Aztec and Maya cultural survival in colonial times; intermarriage, the family and inheritance; the Church and popular religion; silver mining and trade; the struggle for independence. [26L]

Prerequisite: A course in Latin American History

HIS336H Immigration and Ethnicity in American History

The course will consider the extent to which the United States has been a "melting pot", including migrations to and settlement patterns in America, concepts of nationality and race, and the processes of assimilation and acculturation. [26L]

Not offered in 1998-99

HIS340Y The Reformation in Europe

The focus of this course will be the religious movements of the sixteenth century that are described collectively as the Reformation: Lutheranism, Calvinism, the Radical Reformation and the Counter-Reformation. [52L]

Not offered in 1998-99

HIS341H Britain in the Era of World Wars

An analysis of the British experience of war and peace in the first half of the twentieth century. [26L]

Exclusion: HIS231Y/239H/338Y

Not offered in 1998-99

HIS357Y The Renaissance

A cultural history of the 15th and 16th centuries set against the socio-economic background. The course will concentrate upon the development of the Renaissance in Italy and will deal with its manifestations in Northern Europe. [52L]

Not offered in 1998-99

HIS360Y Gender Issues in Canadian History

Did women in early Canada, who ran businesses and convents, experience equality? How were men affected by being perennially cast in the warrior role? Why did 'separate spheres' develop, with what effects? Are both sexes equally 'nurturing'? Why did male obstetricians replace midwives? Based primarily on Canadian history, the course examines changing expressions of both genders. [26L, 26T]

Prerequisite: One previous course in History

HIS366Y Rural Canada 1600-1914

A life based on rural resources of fish, timber and grain was the experience of a large proportion of Canada's people from early native societies through the Prairie wheat boom. Desire for farmland influenced patterns of immigration and settlement, and lay behind our major Rebellions in Lower Canada and the West. This course examines the dynamics of rural settlement, including geography, demography and the role of markets as it surveys various rural communities in Canada's past. [26L, 26T]

Not offered in 1998-99

HIS368H Canada in the First World War

The First World War offers a focus for examining every aspect of Canadian Society in an age recognizable and different from our own. Seminars will address the basis for Canada's involvement in the conflict, the Canadian military response and the problems and achievements of the CEF overseas and the impact of the war on Canada itself. [26L]

Prerequisite: HIS262Y/POL100Y

Not offered in 1998-99

HIS372Y The United States in the Twentieth Century

Major developments in the economic, social, political, and cultural life of the United States during the past century. [52L]

Not offered in 1998-99

HIS390H Canada and the Second World War

A study of the social, political, military and economic experience of Canada during the period of catalytic change, 1939-45, including industrial mobilization and the war production effort, the conscription crises, Canada's relations with her allies, cultural change on the home front, and the Jewish question. [26L]

Prerequisite: HIS262Y

Not offered in 1998-99

HIS391H Mexico: Independence to Revolution, 1810-1960

This course considers the growth of the Mexican nation from the struggle for independence to the "institutional revolution" of today. [26L, 13T]

Prerequisite: HIS290Y

Not offered in 1998-99

HIS392H American Foreign Policy in the Cold War

(Formerly HIS375H)

A study of the United States in the international arena in the years from World War II through the 1980s. [26L]

Exclusion: HIS377Y

Recommended Preparation: HIS271Y

HIS393H Slavery and the American South

An examination of the role of slavery in the development of the American South from the early colonial period through the Civil War. Among the topics to be dealt with are: the origins of slavery, the emergence of a plantation economy, the rise of a slaveholding elite, the structure of the slave community, and the origins of the war. [26L]

Exclusion: HIS384Y

Prerequisite: HIS271Y

Not offered in 1998-99

HIS397H Fascism and Democracy: Spain and Portugal, 1910-the Present

With the outbreak of the Spanish Civil War in 1936, the deep-rooted social conflicts of the Iberian peninsula merged with the general European struggle between fascism and democracy. The course will examine both political and military aspects of the civil war, the Franco and Salazar dictatorships, the role of the Church, the Communist Party and the liberal opposition in both countries, leading up to the Portuguese Revolution of 1974-75 and the liberalization of Spain following Franco's death in 1976. [26L, 13T]

All 400 level courses require balloting. Please see the History Secretary (Room 227, North Building) for details.

HIS415H The Reform Tradition in Canada

An examination of reform in Canada in the nineteenth and twentieth centuries with special attention to public education, the social gospel, temperance and the development of the country's renowned "social safety net." International aid and peacekeeping efforts will be examined through a case study of our relations with China: immigration policies, the work of nineteenth century missionaries, the medical work of Norman Bethune and Canadian activities through the United Nations. [26S]

Exclusion: HIS319Y

Prerequisite: P.I.

Recommended Preparation: HIS262Y

Not offered in 1998-99

HIS417Y Native and Other Americans

A study of the relationships between Native American tribes and the government and society of the United States. Major themes will include pre-contact society and culture; the colonization of America and the origins of race consciousness; Indian removal; movements for cultural renewal; the frontier wars and Native participation in America's major wars; the concentration, reservation and allotment policies; the Indian New Deal; and the Red Power movement. [52S]

Prerequisite: P.I.

HIS420H Topics in Medieval History

Critical evaluation of selected legal, literary and narrative sources. Thematic content will vary from year to year, but there will be an emphasis on social history. [26S]

Prerequisite: P.I.

Not offered in 1998-99

HIS429H Studies in Irish History

A topical analysis of some important and contentious issues in modern Irish history. Subjects to include the Act of Union, Catholic emancipation, Ulsterism, the Great Famine, the Home Rule movement, and the Easter Uprising. [26S]

Prerequisite: P.I.

Not offered in 1998-99

HIS435Y The Viking Age

(Formerly HIS445Y)

A seminar on the history of Europe from the eighth to the eleventh centuries with emphasis upon the Scandinavians and their relations with western European civilization. Readings will be in both primary and secondary sources. [52S]

Prerequisite: P.I.

HIS441H Gender and Race in the Northern Colonies

This seminar addresses two major determinants in the history of colonial Canada and New England. It taps a rich primary and secondary literature on natives, blacks, métis and women. In their individual research projects, students may choose to focus on gender or on race. [26S]

Prerequisite: HIS262Y/271Y

HIS443Y War and Revolution in 19th Century Europe

The impact of war and revolution on European history from Napoleon to the First World War. Major topics will include the Napoleonic Empire and the Vienna Settlement, the Revolutions of 1830, the Revolutions of 1848, the Crimean War, the wars of Italian and German unification, the Russo-Japanese War and the Russian Revolution of 1905, the Balkan Wars, and the First World War. [52S]

Prerequisite: P.I.

Not offered in 1998-99

HIS452H The Great Depression in Canada

This course explores the social, economic and political crisis in the 1930's. It examines social welfare policies, cultural developments, themes of regionalism and federalism and political change. [26S]

Prerequisite: A university-level course in modern Canadian history

Not offered in 1998-99

HIS461H History of Upper Canada (Formerly HIS385H)

This course surveys Ontario before Confederation. What were the bases of the region's prosperity? Topics include backwoods life, gender roles and the rise of schooling. Also of interest are political topics: Loyalism, the Family Compact, the 1837 Rebellion, and Upper Canada's key role in shaping Confederation and other Canadian institutions. [26S]

Exclusion: HIS365Y

Prerequisite: HIS262Y

Not offered in 1998-99

HIS475Y The French Revolution

A topical survey of the French Revolution dealing with the uprising in France and its repercussions elsewhere by examining such subjects as its causes, its effect on nations, classes and gender, and its relation to nationalism, socialism and democracy. [52S]

Exclusion: HIS347Y

Prerequisite: P.I.

Recommended Preparation: A course in European History

Not offered in 1998-99

HIS479Y Cold War America

An examination of significant political, economic, social and intellectual developments, including Cold War foreign policies, economic and social reforms, McCarthyism, the Civil Rights movement, women's liberation, the "counter-culture," and the Indochina Wars. [52S]

Prerequisite: P.I.

HIS484Y Revolution and Reaction in Latin America

A course focusing on politics and revolutionary movements in modern Latin America and related areas (e.g., southern Europe); emphasis will be placed on three or four particular countries, to be studied on a comparative basis. The course will also attempt to introduce possible approaches to history as a social science. [52S]

Prerequisite: P.I.

Not offered in 1998-99

HIS486Y Political Thought in the Reformation (Formerly HIS486H)

The political thought of the Protestant reformers and pamphleteers of the 16th century is examined, with emphasis on the issues of Church/state relations and religious toleration. [26S]

Prerequisite: A course in medieval or early modern European history

HIS487H Canadian Social History

The evolution of Canada from an agrarian to an industrial society. Themes include migration and ethnicity, urbanization and industrialization, violence and social order, social stratification, education and family life. [26S]

Prerequisite: P.I.

Recommended Preparation: HIS262Y

HIS496Y International Relations, 1870-1945

The international relations of the European powers at their zenith and in decline. The interaction of the European powers is studied from the creation of the Second Reich to the origins of the First World War, the Versailles settlement, the inter-war "twenty year crisis" through the Second World War. The economic and social framework will be examined as well as political conflicts. [52S]

Prerequisite: P.I.

Not offered in 1998-99

HIS497Y Independent Reading

An independent reading/research project on an area of interest to a student, supervised by a member of staff. This course is primarily for students enrolled in a History Specialist, Joint Specialist or Major program. Students must find an appropriate supervisor, receive approval for the project, and submit the Registration Form to the Discipline Representative. Only one full credit Independent Reading course is permitted.

Prerequisite: P.I.

HIS498H Independent Reading

An independent reading/research project on an area of interest to a student, supervised by a member of staff. This course is primarily for students enrolled in a History Specialist, Joint Specialist or Major program. Students must find an appropriate supervisor, receive approval for the project, and submit the Registration Form to the Discipline Representative. Only one full credit Independent Reading course is permitted.

Prerequisite: P.I.

HIS499H Independent Reading

An independent reading/research project on an area of interest to a student, supervised by a member of staff. This course is primarily for students enrolled in a History Specialist, Joint Specialist or Major program. Students must find an appropriate supervisor, receive approval for the project, and submit the Registration Form to the Discipline Representative. Only one full credit Independent Reading course is permitted.

Prerequisite: P.I.

S. Bancheri, B.A., M.A., Ph.D.
J. Campana, B.A., M.A., Ph.D.
G. Katz, B.A., M.A., Ph.D.
M. Lettieri, B.A., M.A., Ph.D.
L.T. McCormick, B.A., A.M., Ph.D.
G. Pugliese, B.A., M.A., Ph.D.

Adjunct Professors:

C. Besnard, (York University)
A. Mollica, (Brock University)

Associate Chair and

Faculty Advisor: Professor M. Lettieri
Room 291
(905) 828-3761

The Italian program at Erindale is designed to provide a comprehensive study of the diversity which is Italy, a country whose culture continues to be a significant force in the shaping of Western civilization. Literature courses are organized around major figures, movements or genres, as well as Italian life and civilization. Language is studied scientifically from all points of view—practical, stylistic, philological and historical—at all levels of instruction. Knowledge of another language and culture is regarded favourably by other disciplines and is frequently required for graduate-level studies. Graduates in Italian are in demand and will continue to be. There are career opportunities in teaching, foreign affairs, government, social services, trade and law. Furthermore, the presence of large Italian communities throughout Canada provides a social, intellectual and practical incentive for the study of Italian.

Students are free to design for themselves the program of study best suited to their interests and needs, and they can choose from available courses at Erindale and St. George. There are conditions, however, which must be satisfied (a) for specialization (in Italian alone); (b) for a major (in Italian alone or Italian and French); and (c) for a major in Language Teaching and Learning (in Italian alone or Italian and French); and (d) for a minor. In case of uncertainty with regard to the program of study, course content, graduate studies requirements, or any related matter, students are strongly advised to consult the Associate Chairman for Italian at Erindale.

A fuller description of the Italian program is available in the *Italian Handbook*, which is produced in the spring. It is available from the Italian Department Secretary, Room 227, North Building, Telephone: (905) 828-3727 or from the Associate Chair's office, Room 291. It is an essential supplement to the Calendar and students are urged to consult it.

Erindale's Italian graduates have moved on to advanced studies and to careers in business, journalism, teaching, translation, transportation and other fields where skills in Italian are a necessity.

Courses offered every year: ITA100Y, 110Y, 200Y, 210Y, 321Y, 350Y, JFI225Y

ITA100Y Italian for Beginners

An introduction to the Italian language for students of non-Italian linguistic background. Essentials of grammar, oral practice, language laboratory, translation. [104L, 26P]

Exclusion: Previous schooling in Italian

ITA110Y Beginning Italian For Dialect Speakers

An introduction to the main elements of Italian grammar for students who speak, understand or have studied some Italian but do not have Grade 12 or OAC equivalent. Language laboratory, linguistic study of modern Italian prose, composition, conversation. [104L, 26P]

Exclusion: OAC Italian/or equivalent
Not offered in 1998-99. Students may enrol in ITA100Y

ITA200Y Continuing Italian

This course consists of a thorough review of grammatical structures and is designed to improve the students' self-expressiveness in Italian. Selections from contemporary authors and passages dealing with present-day issues are used as a basis for discussion in Italian. For students whose background in Italian is solely academic. [52L, 26P]

Prerequisite: OAC Italian/or equivalent/
ITA100Y/P.I.

ITA210Y Continuing Italian for Dialect or Native Speakers

A comprehensive review of Italian grammar with readings from a variety of texts. Composition and conversation are integral parts of this course. [52L, 26P]

Prerequisite: OAC Italian/or equivalent/
ITA110Y/P.I.

Not offered in 1998-99. Students may enrol in ITA 200Y

ITA221Y Forms of Modern Italian Literature

An introduction to twentieth-century Italian literature through a study of representative "novelle", shorter works of fiction, plays and poetry. Selections will include writings by Moravia, Calvino and Pandolfi and the major poems of Saba, Ungaretti, Montale, Quasimodo and others. [52L, 26T]

Exclusion: This course is not open to students who have already completed a 300/400 level course in Italian literature.

Prerequisite: OAC Italian/or equivalent/
ITA100Y/110Y

Recommended Preparation: Good knowledge of Italian.

JFI225Y Teaching and Learning a Second/ Foreign Language (Offered in English)

In this course, students will learn how language teaching methods have evolved since the 1960s. Different teaching approaches (behaviorist, audio-visual, communicative, cognitive and humanistic) will be examined with special emphasis on the teaching of the four skills (reading, writing, listening, speaking) and culture, on the roles of the teacher and the learner in the classroom.

This course will be taught in English.

Students enrolled in this course who submit all written work in Italian may petition the Department for credit towards a Specialist or Major in Italian. [26L, 26T]
Prerequisite: FRE180Y and/or ITA200Y/210Y (or equivalent) or permission of the department.

ITA230Y Italian Literature Through the Ages

A survey of the shorter forms of Italian literature from the Middle Ages to the beginning of the twentieth century. Emphasis will be given to poems and "novelle", but theoretical pieces and short plays of recognized literary significance will also be examined. [52L, 26T]

Prerequisite: OAC Italian/or equivalent/ ITA100Y/110Y; 3rd and 4th year students need Departmental permission.

ITA232H Twentieth Century Italian Women Writers

(Offered in English)

This course examines the role of women in the family and in society and their search for sexual identity, as portrayed in the works of several Italian women writers (Deledda, Aleramo, Ginzburg, Banti, Morante, Maraini, Morazzoni). [39L] **This course counts only towards an Italian Minor or as an elective.**

Exclusion: ITA233H

ITA233H Twentieth Century Italian Women Writers

(Offered in English)

This course examines the role of women in the family and in society and their search for sexual identity, as portrayed in the works of several Italian women writers (Deledda, Aleramo, Ginzburg, Banti, Morante, Maraini, Morazzoni). The students will have to do the written work in Italian and read some of the books in Italian. [39L] **This course will count towards any Italian program.**

Exclusion: ITA232H

Prerequisite: ITA200Y/210Y

ITA234Y Topics in Italian Civilization (Offered in English)

Various aspects of modern Italian civilization such as fascism, the Resistance, mafia, industrialization, language and mass-media, immigration, the generation of '68, terrorism, women's liberation, religion, and political ideologies will be discussed through a selection of short stories, novels, sociological and historical documents, articles from newspapers and magazines. **This course counts only towards an Italian Minor or as an elective.** [52L, 26S]

Exclusion: ITA235Y

ITA235Y Topics in Italian Civilization (Offered in English)

Various aspects of modern Italian civilization such as fascism, the Resistance, mafia, industrialization, language and mass-media, immigration, the generation of '68, terrorism, women's liberation, religion and political ideologies will be discussed through a selection of short stories, novels, sociological and historical documents, articles from newspapers and magazines. **The students will have to do the written work in Italian.**

This course will count towards any Italian program. [52L, 26S]

Exclusion: ITA234Y

Prerequisite: OAC Italian/or equivalent/ ITA100Y/110Y

ITA242Y Modern Italian Cinema

(Offered in English)

An analysis of some of the most significant works of modern Italian film makers. Analysis and discussion to be in English. **This course counts only towards an Italian Minor or as an elective.**

Exclusion: ITA240Y/243Y

ITA243Y Modern Italian Cinema

(Offered in English)

An analysis of some of the most significant works of modern Italian film makers. Analysis and discussion to be in English. **The students will have to do the written work in Italian.**

This course will count towards any Italian program.

Exclusion: ITA240Y/242Y

Prerequisite: OAC Italian/or equivalent/ ITA100Y/110Y

ITA312Y Italian Comedy and Performance
A study of representative comic plays from the Middle Ages to Goldoni with a consideration of staging and acting techniques mainly through the production of a specific comedy. **This course will be offered in Italian, but written work could be done in English. This course counts only towards an Italian Minor or as an elective.** [26L, 52P, 26T]

Exclusion: ITA273Y, 313Y/316Y

Recommended Preparation: A good knowledge of Italian

ITA313Y Italian Comic Theatre: Text and Performance
(Formerly ITA316Y)

A study of representative comic plays from the Middle Ages to Goldoni with a consideration of staging and acting techniques mainly through the production of a specific comedy. [26L, 52P, 26T]

Exclusion: ITA273Y, 312Y/316Y

Prerequisite: ITA200Y/210Y/P.I.

Recommended Preparation: A good knowledge of Italian.

ITA314Y Italian Comedy and Performance

A study of comic plays from the Nineteenth and Twentieth Centuries with a consideration of staging and acting techniques mainly through the production of specific comedy. **This course will be offered in Italian, but written work could be done in English. This course counts only towards an Italian Minor or as an elective.** [26L, 52P, 26T]

Exclusion: ITA272Y, 315Y

Recommended Preparation: A good knowledge of Italian

ITA315Y Italian Comedy and Performance

A study of comic plays from the Nineteenth and Twentieth Centuries with a consideration of staging and acting techniques mainly through the production of a specific comedy. [26L, 52P, 26T]

Exclusion: ITA272Y, 314Y

Prerequisite: ITA200Y/210Y/P.I.

Recommended Preparation: A good knowledge of Italian.

ITA321Y Dante's *Divina Commedia*

An introduction to the work and thought of Dante, with special emphasis on the *Inferno* and *Purgatorio*. [52L, 26T]

Prerequisite: ITA200Y/210Y

ITA324Y Renaissance Prose and Poetry

An examination of treatises by Machiavelli, Castiglione, and Guicciardini, and poems by Lorenzo de' Medici, Poliziano, and Michelangelo, in relation to trends in Renaissance thought and the new concept of man and the world. [52L, 26T]

Prerequisite: ITA200Y/210Y/350Y

ITA327H Leopardi's *Canti*

A close reading of the poetry of Italy's finest lyric poet in the light of his prose writings and within the context of Classical and Romantic traditions. [26L, 13T]

Prerequisite: ITA200Y/210Y

ITA342Y Post War Italian Cinema

(Offered in English)

An examination of the different trends in Italian cinema of post war Italy. **This course counts only towards an Italian Minor or as an elective.**

Exclusion: ITA343Y

ITA343Y Post War Italian Cinema

(Offered in English)

An examination of the different trends in Italian cinema of post war Italy. **The students will have to do the written work in Italian. This course will count towards any Italian program.**

Exclusion: ITA342Y

Prerequisite: ITA200Y/210Y

ITA350Y Language Practice

Intermediate - advanced level language course designed to give the student oral and written proficiency. Selected readings on questions of topical interest, discussions, compositions. [52L, 26P]

Prerequisite: ITA200Y/210Y

ITA355Y Intensive Language Practice

The aim is to provide students with the necessary oral and writing skills required in the literature courses and for effective communication through the intensive examination and performance of expressive strategies. [26L, 52P]

Exclusion: ITA351Y(G), 352Y(G)

Prerequisite: ITA200Y/210Y/P.I.

Recommended Preparation: Knowledge of the fundamentals of the Italian language.

ITA371Y Advanced Translation

Techniques and theories of translation, using modern texts containing a variety of linguistic codes. Some simultaneous translation. [26L, 52P]

Prerequisite: ITA350Y/P.I.

ITA372Y Pirandello and Modern Italian Playwrights

The problem of conflicting realities and of the definition of the personality in the plays of Pirandello. Works by Betti, Fabbri, De Filippo and Fo will also be read. [52L, 26S]

Exclusion: ITA272H

Prerequisite: ITA200Y/210Y

ITA390Y 20th-Century Novel

Masterpieces of modern Italian fiction analyzed against the background of modern-day Italy. Works to be read include novels by Svevo, Vittorini, Silone, Moravia, Pavese. [52L, 26S]

Exclusion: ITA270H

Prerequisite: ITA200Y/210Y

ITA395H Major Novels of the 19th Century

A study of the genesis and evolution of the Italian novel, with a close reading of Alessandro Manzoni's *I promessi sposi* and Giovanni Verga's *I Malavoglia*. [26L, 13T]

Prerequisite: ITA200Y/210Y

ITA396H Computer Assisted Language and Literature Teaching in Italian

This course focusses on the computer as a tool to enhance the teaching and learning of Italian. Participants will learn to incorporate computer technology in the classroom, survey and experiment with available software, learn to create new courseware, including interactive multimedia programs. Internet used as a resource. [13L, 13T]

Prerequisite: ITA200Y/210Y (or equivalent or permission of the Department)

ITA421H Petrarca

A study of Petrarca's poetry with some consideration of his influence on Italian and other literatures. [26L, 13T]

Prerequisite: ITA200Y/210Y

ITA427H Boccaccio

A critical portrait of one of "the three crowns of Florence" through an examination of representative selections from his minor works and a detailed analysis of his masterpiece, the *Decameron*. [26L, 13T]

Prerequisite: ITA200Y/210Y

ITA436Y The 18th Century in Italy

An investigation of the intellectual trends and literary forms in Italy from the pre-enlightenment to Romanticism. Readings from the works of Vico, Muratori, Gravina, Metastasio, Rolli, Parini, Verri, Beccaria, Goldoni, Alfieri and others. [52L, 26T]

Prerequisite: ITA200Y/210Y

ITA437H Topics in the History of the Italian Language

The linguistic transition from Latin to Italian, the "Questione della lingua", developments in the 18th and 19th centuries, contemporary trends. Reading and linguistic analysis of representative texts. [13L, 13S, 13P]

Prerequisite: ITA200Y/ 210Y/350Y/355Y

Recommended Preparation: Knowledge of Medieval/Renaissance and modern Italian literary culture.

ITA450Y Advanced Composition

Analysis of expressive strategies and discussion of problems relating to syntax, morphology and vocabulary as they arise from individual compositions and essays and from selected reading passages. [26L, 52P]

Prerequisite: ITA210Y/350Y/355Y

ITA490Y Independent Italian Theatre Studies I

A scholarly project, supervised by a member of the Italian department, on an aspect or figure of Italian theatre of the 19th or 20th centuries. Performing in a play is also a requirement.

Exclusion: ITA495Y in the same year

Prerequisite: ITA314Y/315Y/ P.I.

ITA495Y Independent Italian Theatre Studies II

A scholarly project, supervised by a member of the Italian department, on an aspect or figure of Italian theatre from its origins to Goldoni. Performing in a play is also a requirement.

Exclusion: ITA490Y in the same year

Prerequisite: ITA312Y/313Y/316Y/P.I.

JAE237H The Solar System

In this course, we examine the recent explosion of knowledge concerning the sun, planets and other members of our solar system. We describe the methods by which astronomers and geologists study these objects, and deduce their nature, origin, and evolution. Recently-discovered planetary systems around other stars will also be discussed. [26L, 13T]

Exclusion: AST101H;ERS237H;GSC237H;GLG130H(G)

Prerequisite: One 100 level AST(except 101H)/CHM/ENV/ERS/PHY course or P.I.

JAL253H Language and Society

The study of the relationship between language and society with the goal of understanding social structure through language; major themes are multilingual societies, including pidgin and creoles, and social interaction through speech. (Given by the Departments of Anthropology and Linguistics) [26L, 13T]

Prerequisite: LIN100Y/200H

JAL355H Language and Gender

Ways in which women and men differ in their use of language and in their behaviour in conversational interaction; ways in which language reflects cultural beliefs about women and men. [26L]

Prerequisite: ANT204Y/ENG233Y/ERI200Y/LIN200H/SOC202Y/214Y/215Y

JBC372H Molecular Biology

The organization, storage and transmission of genetic information. Structural features of nucleic acids and genes. DNA replication and repair. Transcription mechanisms and regulation. The genetic code and protein synthesis. Introduction to mechanisms of recombination. Selected topics in biotechnology (mutagenesis, gene manipulation, PCR). [39L, 24T]

Exclusion: BIO372H;CHM360Y;JLM349H(G);MGB311Y(G)

Prerequisite: BIO202H/(206H,215H),203H/207H;CHM240Y

Recommended Preparation: CHM361H

JCP321H Introduction to Quantum Mechanics

A first course covering basic concepts of quantum chemistry and physics. Topics include: De Broglie waves and wave-particle duality, the postulates of quantum mechanics, the Schrödinger equation, the square potential well and potential barriers, the harmonic oscillator, the rigid rotor, atoms, molecules and solids. [39L]

Exclusion: CHM229H(G),321H,327Y(G);PHY247H,257H

Prerequisite: PHY135Y (minimum of 70% or P.I.)/140Y;MAT212H/222H/232H/248H/258Y;CHM221H/(PHY241H,245H)

JCP322H Introduction to Statistical Mechanics

Statistical methods for bridging the quantum behaviour of atoms and molecules to their macroscopic behaviour in solid, liquid and gaseous states. The course introduces partition functions, canonical ensembles, and their application to thermodynamic properties such as entropy, heat capacity, equilibrium constants, reaction rates, and Bose-Einstein/Fermi-Dirac distribution functions. [39L]

Exclusion: CHM229H(G),322H,327Y(G);PHY258H,348H

Prerequisite: JCP321H

JFI225Y Teaching and Learning a Second/ Foreign Language

In this course, students will learn how language teaching methods have evolved since the 1960s. Different teaching approaches (behaviourist, audio-visual, communicative, cognitive and humanistic) will be examined with special emphasis on the teaching of the four skills (reading, writing, listening, speaking) and culture, on the roles of the teacher and the learner in the classroom. This course will be taught in English. [26L, 26T]

Note: Students enrolled in this course who submit all written work in French or Italian may petition their Department for credit towards a Specialist or Major in the particular discipline.

Prerequisite: FRE180Y and/or ITA200Y/210Y (or equivalent) or permission of the Department.

LAT100Y Introductory Latin

Essentials of the Latin language and introduction to Latin literature. [104S]

Exclusion: LAT101H/102H

LAT228Y(I) Introduction to Roman Law

The purpose of this course is to improve the Latin of students with some interest in law. The reading will be selections from the second century A.D. textbook of Roman law, the *Institutes* of Gaius, which divides its subject into the law of persons, the law of things and the law of actions. Schultz' *Classical Roman Law* will be used for reference. The course will include some lectures on the history of Roman Law. [52T]

Prerequisite: OAC Latin/LAT100Y/101H, 102H

Not offered 1998-99.

Faculty Advisor: Dean C.I. Rubincam
(905) 828-5218

The aim of Linguistics is to develop an understanding of how all languages work, and of how languages use disparate means for the same effects. The theme is the unity and the variety of human language. Such a theme subsumes many variations, including grammatical theory and its application to data, language divergence and convergence in space and time, the sociocultural stratification of linguistic systems, normal and pathological language behaviour and language learning. Undergraduate Linguistics is a valuable component of a liberal education, especially in a multi-lingual country such as Canada. It is also valuable as pre-professional training for people interested in teaching English, French or other languages, in areas of rehabilitative medicine such as audiology or speech therapy, in special education, in work with native peoples or with immigrant groups in our society, in religious and missionary work, or in academic disciplines such as psychology, philosophy, literature and language studies, where the contribution of linguistics is increasingly recognized as important. Students interested in linguistics should consider the following: CLA201H, ENG266H, 367Y; FRE272Y, 273Y, 376H, 378H; JFI225Y, PHL245H; PSY312H, 374H; SOC309Y.

LIN100Y Introduction to General Linguistics

Lectures on fundamental principles with illustrations from English and from a broad spectrum of other languages. Practice in elementary analytic techniques. [52L, 26T]

LIN200H Introduction to Language

(Formerly LIN110Y)

A general-interest course on language. The structure of language; the social and psychological aspects of language; how language changes over time, with special reference to the history of English. Also origin of language, writing systems, and language acquisition. [26L, 13T]

Exclusion: LIN100Y

LIN265Y Introduction to Classical Punjabi

Introduction to grammar and reading of the sacred language of the Sikh script. This is a Language course. [104L]

JAL253H Language and Society

The study of the relationship between language and society with the goal of understanding social structure through language; major themes are multilingual societies, including pidgin and creoles, and social interaction through speech. (Given by the Departments of Anthropology and Linguistics) [26L, 13T]

Prerequisite: LIN100Y/200H

JAL355H Language and Gender

Ways in which women and men differ in their use of language and in their behaviour in conversational interaction; ways in which language reflects cultural beliefs about women and men. [26L]

Prerequisite: ANT204Y/ENG233Y/ERI200Y/LIN200H/SOC202Y/214Y/215Y

V. Aivazian, B.S., M.A., Ph.D.
L.J. Brooks, B.Com., M.B.A., F.C.A.
M.G. Evans, B.Sc., M.Sc. Technology, M.I.A.,
Ph.D.
H.P. Gunz, B.Sc., D.Phil, Ph.D., Dp.B.A.
R.M. Jalland, B.A., Ph.D.
J. Kitunen, B.B.M., C.A.
Y. Li, B.Sc., M.B.A., Ph.D.
M.L. McIntyre, B.Com., M.B.A., C.A.
C. Reed, B.A., M.B.A., C.M.A.
M. Schneider, B.Com., L.L.B., M.B.A., C.A.
A.K.P. Wensley, M.A., M.A., M.B.A., Ph.D.
C. Yoon, A.B., M.B.A., Ph.D.

Faculty Advisor: Professor A.K.P. Wensley
Student Counsellor: Mary Wellman
(905) 828-5309

Commerce Programs Handbooks are available from the Management Department, 2nd Floor, Kaneff Centre for Management and Social Sciences.

There are two main routes to studying Management at the University of Toronto at Mississauga. In both cases, you combine Management with another discipline. Your choice of route will depend on your choice of the other discipline, which in turn will be influenced by your career goals.

If the other discipline you wish to study is Economics, then you apply to either the **Specialist in Commerce and Finance** or the **Major in Commerce**. The Specialist program leads to the BCom degree, the Major program to a BA. This makes them particularly suitable for careers in, for example, professional accounting or finance, although they can form an excellent foundation for many other occupations as well.

If the other discipline is any subject other than Economics or Industrial Relations, you apply to the **Major Program in Management**. This leads to either a BA or BSc degree, depending on your second discipline (which must be a Major program). For example, Chemistry and Management will prepare you for a career in the chemical industry; English and Management for publishing, Psychology and Management or Sociology and Management for a wide range of careers in business or commerce, and so on.

Both routes - Commerce and Management - are intended to prepare you to become effective members of organizations so that you will be able to make full use of your science, social science or humanities education. The programs' courses develop an understanding of organizations and managerial functions. Drawing on a balanced offering of rigorous intellectual frameworks from the social sciences, they introduce you to the nature and working of organizations. The main difference between the two routes is that the Commerce programs are more analytical in emphasis than the Major program in Management.

BECAUSE OF LIMITED RESOURCES, ENROLMENT IN COMMERCE AND MANAGEMENT PROGRAMS AND ALL 200+ LEVEL MANAGEMENT COURSES IS RESTRICTED. 100 LEVEL MANAGEMENT COURSES ARE AVAILABLE TO ANY STUDENT. Admission to the programs is normally made at the beginning of the student's second year at the University and is based on their academic record.

St. George Campus students who transfer to B. Com. or Major programs at Erindale cannot take St. George courses until they have completed five full credits at Erindale. Erindale Commerce students will be allowed to take St. George MGT courses only if they have 14.0 credits completed and provided that:

- a) the course is not offered at any time in the Winter Session at Erindale; OR
- b) the course is offered at Erindale in an alternate term.

Balloting: All Management courses above the 100 level are balloted. Ballot forms should be filed in the Commerce Office in April. A successful ballot does not imply eligibility to take the course; eligibility checks are made after the beginning of the Session and students who do not have the necessary prerequisites or who are otherwise ineligible to take a course will be removed.

The Department will check that students have met prerequisite requirements. Students who have not met these requirements will be removed at any time.

MGT course numbering:
The middle digit indicates the area of study as follows:

- 1 - Economics
- 2 - Accounting
- 3 - Finance
- 5 - Marketing
- 6 - Organizational Behaviour
- 7 - Information Systems
- 9 - Law and Management

"MGM" Management Courses

MGM100Y Fundamentals of Management (Formerly MGT100Y)

This course shows how the principal management disciplines provide analytical tools for understanding organizations and their management, how the disciplines inter-relate and how they underpin the activities of organizations. [52L]
Exclusion: MGT101Y(G)

"MGM" Management courses at the 200+ level are available only to students in the Management Major program.

MGM200H Analysis for Decision and Control

(Formerly MGT200H)
Students will be introduced to a variety of techniques for analyzing data for the purposes of decision and control. Topics covered include mathematical modelling, decision analysis and operations management. **Available only to students in the Management Major program.** [26L]
Exclusion: WDW260Y
Prerequisite: MGM100Y/MGT100Y

MGM220Y Accounting Fundamentals (Formerly MGT220Y)

This course gives equal weight to financial and managerial accounting. In financial accounting students are introduced to the traditional framework for financial accounting and reporting. In management accounting the emphasis is on management control and decision-making. **Available only to students in the Management Major program.** [52L]
Exclusion: MGT121H/123H/220H/222H
Prerequisite: MGM100Y/MGT100Y
Corequisite: MGM200H

MGM230H Finance (Formerly MGT230H)

This course analyzes the financial decision-making processes of individuals and firms. It emphasizes the institutional aspects of finance, focusing on the characteristics of financial instruments and institutions in capital markets. **Available only to students in the Management Major program.** [26L]
Exclusion: MGT331Y/337Y
Prerequisite: MGM100Y/MGT100Y
Corequisite: MGM200H

MGM290H Regulatory Issues (Formerly MGT290H)

This course provides an overview of legal and taxation systems as they affect the structure and management of organizations. **Available only to students in the Management Major program.** [26L]
Exclusion: MGT393H/394H/423H/429H/JGM291H
Prerequisite: MGM100Y/MGT100Y
Corequisite: MGM200H

MGM320H Financial Reporting (Formerly MGT320H)

This course will provide an understanding of financial reports, and their use for investment and management decisions. Cases will be used to enhance problem solving skills and will integrate ideas from finance, management and financial accounting and other areas of study. **Available only to students in the Management Major program.** [26L]
Exclusion: MGT222H/224H/322H
Prerequisite: MGM220Y/MGT220Y

MGM332H Managerial Finance (Formerly MGT332H)

This course deals with financial valuation models, capital budgeting decision-rules, the problem of investment under uncertainty, optimal financial structure of the firm; the characteristics of debt, equity and other financial instruments such as options are also analyzed. **Available only to students in the Management Major program.** [26L]
Exclusion: MGT331Y,337Y
Prerequisite: MGM230H/MGT230H

MGM362H Organizational Behaviour

Using concepts from psychology and the social sciences to understand processes of managing and organizing, the course will explore life in organizations, the analytical tools that can help make sense of the behaviours exhibited by organizational members, and approaches to becoming an effective organizational member. **Available only to students in the Management Major program.** [26L]
Exclusion: MGT262H,362H;WDW260Y

MGM400H Special Topics in Management (Formerly MGT400H)

A series of advanced seminars and projects, designed to integrate the themes of the program and to draw connections with current issues of importance in private- and public-sector organizations. **Available only to students in the Management Major program.** [26L]
Prerequisite: MGT262H

"MGT" Management Courses

MGT120H Financial Accounting I

Introduction to the theory and concepts of financial accounting. Students learn how to construct and interpret financial statements. Topics include an introductory understanding of accounting and the context within which accounting occurs. [26L]

MGT123H Management Accounting I

Basic understanding of cost accounting as used in manufacturing, merchandising, and service industries. Topics include the purposes of cost accounting, cost classification and behaviour, costing systems, estimation of costs, and the use of costs in cost-volume-profit analysis. Computer applications are used when appropriate. [26L]

Exclusion: MGT223H

Prerequisite: MGT120H with at least "C"

"MGT" courses at the 200+ level are available only to students in the Commerce programs and to Special Students.

MGT220H Financial Accounting II

Expands the analysis of financial accounting beyond MGT120H. Technical topics include accounting for cash, receivables, inventories, capital assets, depreciation, depletion, and earnings per share. There is also an emphasis on applied decision-making and professional judgment in accounting. [26L]

Exclusion: MGT121H/222H

Prerequisite: MGT120H

Recommended Preparation: MGT123H

MGT223H Management Accounting I

(Last offering: 1998-99 winter)

Basic understanding of cost accounting. Topics include cost classification and behaviour, use of cost data in cost-volume-profit analysis, costing systems, cost control through standards and variance analysis and using cost data to make business decisions. Changes in the manufacturing process and environment will be incorporated. Computer applications are used where appropriate. [26L]

Exclusion: COM220Y, 221H; MGT123H

Prerequisite: MGT120H

MGT224H Financial Accounting Theory & Policy I

Examines the framework within which financial reporting decisions are made in Canada. Accounting policy issues dealing with measurement and disclosure of information in financial statements are analyzed with the focus on developing professional judgement. [26]

Exclusion: COM320Y

Prerequisite: MGT121H/220H

MGT252H Principles of Marketing (Formerly MGT352H)

An introduction to the basic concepts of market definition, consumer behaviour, and the principal marketing functions: product line development, pricing, distribution, promotion, salesforce management, advertising, research, and planning. [26L]

Exclusion: COM350Y, 351H

MGT262H Individual and Group Behaviour in Organizations

(Formerly MGT362H)

Theoretical ideas and practical applications concerning the behaviour of individual and group behaviour in organizations. We explore relevant problems confronting management: motivation, influence, communication, supervision, decision-making, and workforce diversity. [26L]

Exclusion: MGM362H; WDW260Y

MGT321H Auditing

A study of the concepts and theory underlying audit practice. Cases are used to develop professional judgment and skills useful in practice. [26L]

Prerequisite: MGT224H/COM320Y

MGT322H Financial Accounting Theory and Policy II

Examines several current measurement and disclosure issues in financial reporting. Topics include: measurement models, measuring and reporting pensions, financial reporting of corporate income taxes etc. The emphasis is on developing both professional judgment in decision-making and a defensible approach to using the authoritative and other relevant literature. [26L]

Exclusion: COM320Y

Prerequisite: MGT224H

MGT323H Managerial Accounting II

Introduction to the different contexts in which costs need to be determined for goods sold internally, externally, domestically, and internationally. Other topics include appropriate cost structures for centralized, decentralized, and matrix forms of organizations and costs for long-term capital projects. [26L]

Prerequisite: MGT123H/223H; ECO220Y/227Y/STA(250H, 255H)(G)/257H)

MGT330H Investments

Security analysis and portfolio management. Emphasis is placed on an analysis of bonds and common stocks. [26L]

Corequisite: MGT331Y/337Y

MGT337Y Business Finance

Valuation models, cost of capital, capital budgeting, investment under uncertainty, the use of leverage, dividend policy, the financial environment within which Canadian companies operate. The characteristics of various debt and equity instruments available in the Canadian capital market. [52L]

Exclusion: MGT331Y

Prerequisite: ECO200Y/206Y, ECO220Y/227Y/(STA250H + 255H(G)/257H)

MGT353H Introduction to Marketing Management

An applications-oriented course intended to develop the analytic skills required of marketing managers. The course is designed to improve skills in analyzing marketing situations, identifying market opportunities, developing marketing strategies, making concise recommendations, and defending these recommendations. [26L]

Exclusion: COM350Y

Prerequisite: MGT252H

MGT363H Organization Design

The course covers the relationship between design and effectiveness; the impact and determinants (environment, technology, competitiveness, size, life-cycle, communication needs) of an organizations form as well as the difficulties of re-framing organizations. [26L]

Exclusion: MGM362H;WDW260Y

MGT371H Introduction to Business Information Systems

This course has been designed to provide students with a basic understanding of the computer and communications systems that are so central to modern organizations. Unlike programming courses, the focus here is on the knowledge that will enable students to *use* computer-based systems and to *participate* in their development. The course covers the technology, design, and application of information systems with emphasis on managerial implications. A wide variety of applications are studied. No previous background in computing is assumed. [26L]

Exclusion: CSC340H(G)

MGT393H Legal Environment of Business I

An introduction for commerce students to the Canadian legal system focusing on business entities, the structure of the Canadian court system, the various elements of contract law and the law of negligence. [26L]

Exclusion: COM392Y, JGM291H

MGT394H Legal Environment of Business II

This course builds on the legal principles developed in Legal I and canvasses other areas of law that impact a business entity. The course deals with the Sales of Goods Act and relevant consumer protection legislation, employment law, environmental law, the Personal Property Security Act and the rights of the secured creditor. [26L]

Exclusion: COM392Y, JGM291H

Prerequisite: MGT393H

MGT401H/402H Supervised Reading Course on an Approved Subject

Open when a faculty member is willing and able to supervise. Students must obtain the approval of the Director of Commerce and the supervising faculty member before enrolling. *Prerequisite:* Cumulative GPA of at least 2.70

MGT421H Advanced Auditing Topics

The course focuses on the reasoning and evidence theory underlying audit decision making. Coverage includes professional judgement, statistical auditing, assurance engagement, and public sector auditing. [26L]

Prerequisite: MGT321H

MGT422H Computer Auditing

This course investigates strategies and procedures used to audit computerized accounting systems based upon their special control characteristics. Special attention is devoted to computerized statistical procedures. [26L]

Prerequisite: MGT321H, MGT371H

MGT423H Canadian Income Taxation I

This is the first of two courses in federal income tax law. It is designed to give the student a basic understanding of the Income Tax Act and its administration. This is achieved by applying the law to practical problems and case settings. Topics covered include: residence, employment income, property income, business income, capital gains, computation of taxable income and tax for individuals and trusts. [26L]

Exclusion: COM423Y

MGT425H Current Accounting Issues II

A review and analysis of contemporary and controversial issues in accounting theory and practice. The study of accounting issues in various industries or the public sector, e.g. non-profit accounting, accounting for financial institutions, the resource sector, real estate, and social responsibility accounting. [26S]

Exclusion: COM420Y

Prerequisite: MGT322H/COM320Y with a C standing.

MGT426H Advanced Accounting

The emphasis in this course is on accounting issues and practices relating to long-term investments, consolidations, foreign transactions and foreign investments. International accounting issues are also introduced. [26L]

Prerequisite: At least C- in MGT322H

MGT428H Management Control

The case method will be used to provide an understanding of the issues and environment of management control, and will integrate material from other courses in Management and Economics in the solution of problems in systems design and operation. [26S]

Prerequisite: MGT323H/COM220Y with at least a C standing.

MGT429H Canadian Income Taxation II

This is the second of two courses in federal income tax law. It is designed to give the student an understanding of more complex issues of Canadian Income Tax law and tax planning. This is achieved through a combination of lectures and the application of the law to practical problems and case settings. Topics include computation of corporate taxes, integration, corporate reorganizations, surplus distributions, partnerships and trusts. [26L]

Exclusion: COM423Y

Prerequisite: MGT423H

MGT431H Advanced Topics in Finance

The areas of concentration depend on the particular instructor teaching the course and may focus on financing problems in either the private or public sectors. [26L]

Prerequisite: MGT337Y

MGT452H Advanced Marketing Management

The emphasis in this course is on marketing decision making in a dynamic environment. Building on the concepts and skills developed in MGT353H, the course focusses on the major decisions facing marketing managers in the attempt to harmonize the resources of the organization with the opportunities in the market. [26S]

Prerequisite: MGT353H/COM350Y

MGT453H Marketing Research

Marketing research is studied from the perspective of the marketing manager. The course focuses on the initiation, design, and interpretation of research as an aid to marketing decision making. Case studies and projects are used to provide students with some practical research experiences. [26L]

Prerequisite: MGT353H, ECO220Y/227Y/
(STA250H + 255H(G)/257H)

MGT454H Special Topics in Marketing

This course focuses on a specific theoretical or functional area of marketing. The area of concentration depends on the instructor. Examples of areas that may be covered include current issues in consumer behaviour, advertising, industrial marketing, or retailing. [26L]

Prerequisite: MGT353H

MGT491H Introduction to International Business

Focuses on developing an understanding of the fundamentals of doing business in an international environment. Based on the application of management theory, (trade theory, foreign exchange, foreign direct investment, theory of the multinational) to the strategic management problems of organizing business in the international arena. [26L]

MGT492H Management Policy and Strategy

Focuses on the fundamentals of strategic management-the determination of the goals and objectives of a business, development of strategies to achieve these objectives and the adoption of courses of action and the allocation of resources to implement these strategies. Strategy formulation is based on an understanding of the nature of the competitive forces in industry. [26L]

C. Albanese, B.Sc., Ph.D.
 J. Alexander, B.Sc., M.Sc., M.A.
 I.R. Graham, B.Sc., Ph.D.
 R.A. Mathon, Dipl. Ing., M.Sc., Ph.D.
 L. Seco, B.Sc., Ph.D.
 M. Spivakovsky, B.Sc., Ph.D.
 F.D. Tall, A.B., Ph.D.
 S. Tanny, B.Sc., Ph.D.
 W.Weiss, B.Sc., M.Sc., Ph.D.

Associate Chair: Professor S. Tanny
 Telephone: (905) 828-3810
Faculty Advisor: Mr. J. Alexander
 Telephone: (905) 828-5323

Mathematics teaches you to think analytically and creatively. It is a foundation for advanced careers in a knowledge-based economy. Students who develop strong backgrounds in mathematics often have distinct advantages in other fields such as physics, computer science, economics, and finance.

The twentieth century has been a remarkable one for discovery in mathematics. While new mathematical ideas may evolve in the domain of pure thought, the real world is also a key source of mathematical inspiration. Problems in computer science, economics and physics have opened new fields of mathematical inquiry, and discoveries at the most abstract level often lead to breakthroughs in applied areas.

The Mathematical Sciences Specialist Program at Erindale College is supported by the Departments of Computer Science and Statistics as well as Mathematics. It provides students with a solid foundation in the fundamental theoretical aspects of the mathematical sciences along with a broad range of techniques for applying this theory. The program can be taken in its entirety at Erindale College.

Most first-year students at Erindale College take a course in calculus. We offer three: MAT112Y, MAT132Y and MAT138Y; they are distinguished by the level of high school preparation required and the speed at which the course material is covered. Which one is correct for you?

MAT132Y is the standard course for students who have completed OAC Calculus and OAC Algebra & Geometry. MAT112Y is the course for students who do not have the preparation required for MAT132Y, but who are willing to undertake the extra workload necessary to remedy this deficiency. MAT112Y and MAT132Y write the same final examination.

MAT138Y is the most intensive calculus course at Erindale; it contains all the material of MAT132Y and much more. It is the recommended course for students who come to university with A's in their OAC Mathematics. Because of the advanced nature of MAT138Y, Registrarial Services allows a generous extension of the time allowed to transfer from MAT138Y to MAT132Y without academic or financial penalty. MAT232H consists of that part of the material of MAT138Y which is not covered in MAT132Y. Students completing MAT132Y who wish to enter the Mathematical Sciences program must take MAT232H which is also offered each summer at Erindale College. MAT102H is a special course for beginning mathematical sciences students. It is intended to bridge the gap between high school mathematics, where mathematical proofs and logical arguments are often omitted, and university level mathematics, where proofs are critical to full understanding of the material. Concepts learned in MAT102H will already become useful in MAT248Y and MAT258Y, the two pillars upon which most of the more advanced courses rest. MAT222H and MAT212H are surveys of the material in MAT248Y and MAT258Y, respectively; these half courses are not suitable preparation for further study in Mathematics, but are designed for students in other programs.

MAT315H and MAT378H are special third-year courses in pure mathematics which continue the development of mathematical reasoning begun in MAT102H; they are required as prerequisites for the fourth-year courses. The other third-year courses are valuable for applications and connections with other fields of study.

Those who wish to pursue graduate studies in pure mathematics should inquire about taking some additional advanced courses on the St. George campus. Anyone wishing to take a Mathematics course on the St. George campus should check with the Faculty Advisor concerning possible exclusions.

Additional information about the Mathematics Department, its course offerings and its faculty, can be found on the World Wide Web at <http://www.erin.utoronto.ca/academic/math>.

MAT102H Introduction to Mathematical Proofs

Introduction to logical notation and its use in various types of mathematical proofs.

Applications to: sets, functions, bijections, equivalence relations, products, finite and infinite sets, cardinality. This course is designed to introduce students to abstraction and rigour; it is strongly recommended for all first year students who are interested in specializing in Mathematics. [26L, 13T]

Exclusion: This course may not be taken for degree credit by any student who has taken or is currently enrolled in any third year Mathematics course.

MAT112Y Calculus

Review of precalculus material including trigonometric and logarithmic functions. Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph Sketching. Applications of calculus. Introduction to sequences and series. (For students without OAC Calculus, or equivalent, in the last three years.) [78L, 52T]

Exclusion: MAT132Y, 138Y

Prerequisite: Grade 12 Mathematics or equivalent

NOTE: MAT112Y contains one more contact hour per week than MAT132Y because it covers more material, including that of OAC Calculus.

MAT132Y Calculus

Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph sketching. Applications of calculus. Introduction to sequences and series. (Primarily intended for non-specialists). [52L, 52T]

Exclusion: MAT112Y, 138Y

Prerequisite: OAC Calculus, OAC Algebra and Geometry; or equivalent

MAT138Y Calculus

Derivatives, integrals, the fundamental theorem of calculus, improper integrals and limits, a brief introduction to sequences and series. Differential and integral calculus of several variables: partial differentiation, chain rule, extremal problems, Lagrange multipliers, classification of critical points. Multiple integrals, Green's theorem and related topics. This course is faster paced than the MAT132Y/232H sequence. [78L, 26T, 4P]

Exclusion: MAT112Y/132Y/232H

Prerequisite: OAC Calculus, OAC Algebra and Geometry

MAT212H Short Course in Differential Equations

Ordinary differential equations. Emphasis throughout on applications. (Suitable for non-specialists). [26L, 13T]

Exclusion: MAT258Y

Prerequisite: MAT112Y/132Y/138Y

MAT222H Short Course in Linear Algebra

Matrices, linear transformations, systems of linear equations, determinants, canonical forms, applications. (Suitable for non-specialists). [26L, 13T]

Exclusion: MAT248Y

Prerequisite: MAT112Y/132Y/138Y/OAC Algebra and Geometry.

MAT232H Short Course in Calculus of Several Variables

Differential and integral calculus of several variables: partial differentiation, chain rule, extremal problems, Lagrange multipliers, classification of critical points. Multiple integrals, Green's theorem and related topics. (Primarily intended for non-specialists). [26L, 13T]

Exclusion: MAT138Y

Prerequisite: MAT112Y/132Y

MAT248Y Linear Algebra and Linear Programming

Vector spaces, basis and dimension, quotient spaces, abstract linear transformations, matrices and changes of basis, dual spaces, determinants, linear equations, eigenvectors, inner product spaces, reduction of normal matrices, quadratic forms. Linear programming. Applications. [52L, 26T, 4P]

Exclusion: MAT222H

Prerequisite: MAT102H, 138Y/232H

MAT258Y Ordinary Differential Equations

Ordinary differential equations of the first order. Higher order linear differential equations and systems. Phase plane analysis of linear and nonlinear differential equations.

Other topics: series solutions, numerical methods, applications. [52L, 26T, 4P]

Exclusion: MAT212H

Prerequisite: MAT102H, 138Y/232H

NOTE: MAT248Y and MAT258Y are designed to be taken simultaneously.

MAT309H Introduction to Mathematical Logic

The nature of axioms, proofs and consistency including the completeness of the predicate calculus. Introduction to the theory of recursive functions. Gödel's incompleteness theorems and related results. [39L]

Exclusion: CSC438H(G)

Prerequisite: MAT102H/PHL245H, MAT112Y/132Y/138Y, 222H/248Y

MAT311H Partial Differential Equations

Partial differential equations of applied mathematics, mathematical models of physical phenomena, basic methodology. [39L]

Prerequisite: MAT102H,138Y/232H,212H/258Y

MAT315H Introduction to Number Theory

Elementary topics in number theory such as: prime numbers; arithmetic with residues; Gaussian integers, quadratic reciprocity law, representation of numbers as sums of squares. (This course emphasizes rigour). [39L]

Prerequisite: MAT102H,248Y,258Y

MAT334H Complex Variables

Theory of functions of one complex variable: analytic and meromorphic functions; Cauchy's theorem, residue calculus. Topics from: conformal mappings, analytic continuation, harmonic functions. [39L]

Prerequisite: MAT102H,138Y/232H

MAT344H Introduction to Combinatorics

Basic counting principles, generating functions, permutations with restrictions. Fundamentals of graph theory with algorithms; applications (including network flows). [39L]

Prerequisite: MAT102H,222H/248Y

MAT368H Vector Calculus

The implicit function theorem, vector fields. Transformations. Parametrized integrals. Line, surface and volume integrals. Theorems of Gauss and Stokes with applications. [39L]

Prerequisite: MAT102H,138Y/232H

MAT378H Foundations of Analysis

Sequences and series, limits, convergence tests. Fundamental theorems of analysis: Cauchy sequences and completeness, topological properties. (This course emphasizes rigour.) [39L]

Prerequisite: MAT102H,248Y,258Y

MAT438H Analysis

(Formerly MAT388H)

Continuity, existence theorems, integration, pointwise and uniform convergence. [39S]
With permission of the instructor, this may be taken as a reading course.

Exclusion: MAT388H

Prerequisite: MAT378H

MAT448H Algebra

Introduction to groups, rings, and fields. [39S]
With permission of the instructor, this may be taken as a reading course.

Prerequisite: MAT315H

MAT478H/488H/498H Topics in Mathematics

Introduction to a topic of current interest in mathematics. Content will vary from year to year. [39S]

Prerequisite: P.I.

PHILOSOPHY

F. Abou-Rihan, B.A., M.A., Ph.D.
D. Ainslie, B.A., M.A., Ph.D.
J. Allen, B.A., M.A., Ph.D.
J. Brunning, B.A., M.A., Ph.D.
A. Gombay, B.A., M.A., B.Phil.
J. Heath, B.A., M.A., Ph.D.
B.D. Katz, B.A., M.A., Ph.D.
C. Misak, B.A., M.A., D.Phil.
A. Mullin, B.A., M.A., Ph.D.
C. Normore, B.A., M.A., Ph.D.
A. Ripstein, B.A., M.A., Ph.D.

Discipline Representative and

Faculty Advisor: Professor J. Brunning
Room 275
(905) 828-5349

The Greek words from which "philosophy" is formed mean "love of wisdom" and all great philosophers have been moved by an intense devotion to the search for wisdom.

What distinguishes philosophy from the physical and social sciences is its concern not only with the truths which are discovered by means of specialized methods of investigation, but with the implications such discoveries have for human beings in their relations with one another and the world. Moreover, philosophy has an abiding interest in those basic assumptions about the nature of the physical and social world, and about the nature of inquiry itself, which underlie the methodology by means of which scientists seek to explain their observations.

Philosophy examines the grounds for those beliefs which make up people's fundamental views of the world. Here are a few fundamental beliefs, some held by some people, some by others: "Telling lies is always wrong", "Some things can never be known", "The material world is all that exists", "What is right or wrong depends entirely on one's society or culture", "People are inherently selfish", "Life must have a transcendent purpose". There are many other similar beliefs which deeply affect the way we think and live. Philosophers discuss them as thoroughly and systematically as possible.

The Philosophy Department offers courses which study basic works of famous philosophers of the past taken in their historical settings, and it offers courses in which students are trained to think critically about philosophical issues themselves. A glance through the courses offered in Philosophy will inform any prospective student of the names of philosophers studied, and the special areas investigated in the Philosophy programs at the University of Toronto. A dictionary or encyclopedia will supply the

standard definition of logic, ethics, epistemology, and metaphysics. But one who wants to know what philosophy is must do it. A student can learn a great deal from a study of what has been written by the great philosophers through history. But such study is only an important preliminary. To read without bold and critical thinking is next to useless.

Some students may not wish to undertake more than a few courses in philosophy to supplement their work in other fields. They may make a free choice among the courses offered by the Department. The only restrictions are that they take no more than one 100 level course and that 300 and 400 level courses presuppose previous work in Philosophy. Courses at the 200 level are open to all students who have completed at least four full courses and to those with fewer than four full courses completed who are taking (or have taken) a 100 level course in Philosophy.

Many students will find that their interests embrace philosophy and some other subject. The Philosophy Department has joint programs with various departments.

Other students will find that their primary interest is in Philosophy. The Specialist Program is designed for such students. Its completion may be a step toward graduate study in Philosophy, or it can lead in other directions; law, journalism, education, theology, and politics are some possibilities. It cannot be stressed too strongly, however, that one of the chief rewards of studying philosophy must always be intrinsic to the subject itself.

ERINDALE PHILOSOPHY HANDBOOK.

Because of space and time restrictions, the Calendar gives only brief and abstract descriptions of courses. The *Philosophy Handbook*, which is produced in the Spring, gives detailed information on course outlines, requirements, readings, instructors, time-tableing, etc. It is available at the Philosophy Department, Room 227 North Building, phone (905) 828-3724, or will be mailed on request. It is an essential supplement to the Calendar and students are urged to consult it.

The Philosophy Discipline Representative and staff will be glad to offer advice and assistance. To arrange for counselling by a Faculty member, phone (905) 828-3755.

PHL100Y Logic, Knowledge, and Reality

An introduction to philosophy, emphasizing logic, theory of knowledge, and metaphysics. Elementary techniques of modern symbolic logic and problems in inductive logic and probability. What can be known with certainty? What is reality? Are there limits to knowledge? [78L]

Exclusion: PHL101Y, 102Y, PHI103Y(G), 104Y(G), 105Y(G)

PHL101Y Mind, Value and Religion

An introduction to philosophy, stressing conceptions of human nature and of the good life. The religious dimension of life; arguments for the existence of God; free will; mind and body in relation to the scientific image of human nature; the rational foundation for morality; the relation of individual to state; authority, liberty, and justice. [78L]

Exclusion: PHL100Y, 102Y, PHI103Y(G), 104Y(G), 105Y(G)

NOTE: All 200 level courses, with the exception of PHL245H, have the prerequisite that the student have completed at least four full courses (or the equivalent) at the University. This prerequisite is waived for students who are taking (or have taken) a 100 level course in Philosophy. There are no other prerequisites for any 200 level courses.

PHL200Y Birth of Western Philosophy

Classical doctrines of Plato and Aristotle concerning the universe and God, human knowledge and logic, soul and body, moral values and the good life. Plato's predecessors, the pre-Socratics and Socrates, and post-Aristotelian developments in Stoicism, Epicureanism and neo-Platonism. [78L]

Exclusion: CLA200Y

Recommended Preparation: PHL100Y/101Y

PHL210Y 17th and 18th Century Philosophy

Classic texts by European philosophers (e.g., Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant). Their attitudes toward science and religion, and their theories about the nature of the world and of human knowledge, culminating in the "Copernican Revolution" of Kant. [78L]

Recommended Preparation: PHL100Y/101Y

PHL220H Introduction to Existentialism

Human perception and knowledge of reality; freedom and the meaning of human life; sexuality and the body. Authors include Heidegger, Buber, Marcel, Camus, Sartre, de Beauvoir, Merleau-Ponty. [39L]

PHL228H American Philosophy

Philosophy in the United States since colonial days. Emphasis on Transcendentalism (Emerson, Thoreau) and Pragmatism (Peirce, James, Dewey). [26L, 13T]

PHL235H Philosophy of Religion

A philosophical analysis of some basic theological questions; the nature of religious belief and experience, the relationship between religion and morality, or religion and science, the role of religion in a pluralistic society. [39L]

PHL241H Philosophy of the Emotions

Typical problems studied: Can emotions be assessed as rational or irrational? Do we have immediate knowledge of our emotions? Are emotions right or wrong in themselves? Are we responsible for them? How do our socialized emotional repertoires condition our conception of ourselves, including our gender identity? Do they encourage harmful stereotypes? [39L]

PHL243H Philosophy of Human Sexuality

Philosophical issues about sex and sexual identity in the light of biological, psychological, and ethical theories of sex and gender. The concept of gender; male and female sex roles; theories of psycho-sexual development; sexual morality; "natural", "normal" and "perverse" sex; sexual liberation; love and sexuality. [39L]

PHL244H Human Nature

Theories of human nature, e.g., psycho-analysis, behaviourism, sociobiology. Current issues, e.g., egoism and altruism, instincts, I.Q., rationality, sanity and mental illness. [39L]

PHL245H Modern Symbolic Logic

The application of symbolic techniques to the assessment of arguments. Propositional calculus and quantification theory. Logical concepts; techniques of natural deduction. [39L]

Exclusion: MAT104H

PHL246H Probability and Inductive Logic

The elements of axiomatic probability theory, and its main interpretations (frequency, logical, subjective). Reasoning with probabilities in decision making and science. [39L]

Recommended Preparation: PHL100Y/245H

PHL247H Rhetoric and Reasoning

The area of informal logic-the logic of ordinary language, usually non-deductive. Criteria for the critical assessment of arguments as strong or merely persuasive. Different types of argument and techniques of refutation; their use and abuse. [39L]

Exclusion: TRN200H

PHL252H Scientific Revolutions: The Invention of Science

An examination of the ideas and methods which have shaped modern science with an emphasis on the thought and practice of uncontroversially great scientists. Copernicus, Galileo, Newton, Darwin, and Einstein will be among the figures discussed. Our concern is both historical and philosophical and among the questions we will take up are: What is the experimental method and how did it emerge? How do scientists create theories? How is consensus built in science and what does that show us about the nature of rationality? [39L]

PHL255H Science and Pseudo-Science

An examination of (e.g.) ESP, astrology, race and I.Q., scientific creationism, psychoanalysis, sociobiology; the principles of good science as opposed to pseudo-science, especially in "borderline" cases; misuses of science. [39L]

PHL267H Feminism

Main types of feminist theory: liberal, Marxist, Existential and "Radical". A number of ethical, political and psychological issues are considered. [39L]

PHL270Y Philosophy of Law

The concept of law and of the rule of law, natural law, positivism and the common law tradition; theories of law; responsibilities and rights. [52L]

Exclusion: PHL271H

PHL271H Ethics and the Law

Moral issues in the law, such as civil liberties and police powers, censorship, civil disobedience, the death penalty, inequality, paternalism, and the constitutional protection of human rights. Case studies from Canadian law. [39L]

Exclusion: PHL270Y

PHL272H Philosophy of Education

The nature, aims, and content of education; learning theory; education and indoctrination; the teaching of morals and the morality of teaching; the role and justification of educational institutions, their relation to society and to individual goals; authority and freedom in the school. [39L]

PHL274H Contemporary Social Issues

Against the background of some major social and political theories, this course will explore such practical problems as nationalism, racism, sexism, inequality, revolution, and political radicalism. [39L]

PHL277Y Moral, Social, and Political Philosophy

A survey of the major moral and political theorists/theories of the Western philosophical tradition. Questions to be addressed include: Why be moral? Why obey the law? What is justice? What are rights? What is the best form of government? [39L]

Exclusion: PHL265H

Recommended Preparation: PHL100Y/101Y

PHL283H Morality, Medicine, and the Law

Moral implications of recent developments in medicine and the life sciences; related legal and social issues. Euthanasia, health care priorities, abortion, fertility control, against the background of some major ethical theories. [39L]

Exclusion: PHL281H

PHL285H Aesthetics

Some central areas in philosophy of art such as the nature of a work of art; definitions and theories of arts, aesthetic experience, perception and sensibility; objectivity in criticism; standards of taste or evaluation. [39L]

PHL288H Literature and Philosophy

The literary expression of philosophical ideas and the interplay between literature and philosophy. [39L]

PHL290H Psychoanalysis

An introduction to dream psychology, the psychology of errors, instinct theory, mechanisms of defence, the structure of personality. Philosophical topics include: freedom and determinism, consciousness, the nature of conscience, the status of psychoanalysis. [39L]

PHL294H Markets and Morals

A study of the standards that can be used to judge the performance of economic systems, e.g. efficiency, fairness, maximization, along with the different institutional mechanisms that can be used to organize economic activity, e.g. horizontal or vertical integration, public or private ownership. [39L]

Recommended Preparation: ECO100Y

PHL295H Philosophy of Business

Philosophical issues in ethics, social theory, and theories of human nature insofar as they bear on contemporary conduct of business. Issues include: Does business have moral responsibilities? Can social costs and benefits be calculated? Does modern business life determine human nature or the other way around? Do political ideas and institutions such as democracy have a role within business? [39L]

NOTE: All 300 level courses, with the exception of PHL 344H-347H, have a prerequisite of three half-courses (or the equivalent) in Philosophy. It is strongly recommended that students prepare for 300 level courses by taking two of the following: PHL100Y/101Y, 200Y, 210Y, 245H, 277Y. Some 300 level courses have specific prerequisites or recommended preparation, as described below. Students who do not meet the prerequisite for a particular course but believe that they have adequate preparation should consult the instructor concerning entry to the course.

PHL300H Topics in Ancient Philosophy

A study of some topic or thinker in the ancient period. [26S]
Recommended Preparation: PHL200Y/210Y

PHL305H Early Medieval Philosophy

A study of issues such as the relations of reason and faith, the being and the nature of God, and the problem of universals in the writings of such philosophers as Augustine, Boethius, and Anselm and Abelard.
Exclusion: PHL302Y
Recommended Preparation: PHL200Y/CLA200Y

PHL306H Later Medieval Philosophy

A study of issues such as relations of reason and faith, the being and nature of God, and the structure of the universe in writers such as Aquinas and Ockham. [39L]
Exclusion: PHL302Y
Recommended Preparation: PHL200Y/CLA200Y

PHL307H Topics in Mediaeval Philosophy

A study of some of the principal figures and intellectual problems in the period from the first century to the sixteenth. Figures such as Philo, Augustine, Abelard, Avicenna, Maimonides, Aquinas, Duns Scotus, Ockham and Suarez will be studied on topics in metaphysics, epistemology, ethics and philosophy of nature. [26S]
Exclusion: PHI205Y(G)
Recommended Preparation: PHL200Y/210Y

PHL309H Topics in Modern Philosophy

A study of some topic or thinker in the modern period. [26S]
Exclusion: PHL310H(G), PHL311H(G)
Recommended Preparation: PHL200Y/210Y

PHL312H Kant

A systematic study of *The Critique of Pure Reason*. [26S]
Recommended Preparation: PHL210Y/309H

PHL317H Topics in Nineteenth Century Philosophy

A study of some topic or thinker in the 19th century. [26S]
Exclusion: PHL315H(G), 316H(G)
Recommended Preparation: PHL210Y/309H/312H

PHL324H The Continental Tradition

A study of some of the principal figures and intellectual problems in twentieth-century existentialism and phenomenology. [26S]
Exclusion: PHL320H(G), 321HG)
Recommended Preparation: PHL210Y/309H/312H/317H

PHL325H The Analytic Tradition

Analytic philosophy up to 1945. Authors include Frege, Russell, Moore, Wittgenstein, and logical positivists such as Ayer. [26S]
Recommended Preparation: PHL245H

PHL332H Issues in Metaphysics

Typical problems: ontological categories; ontological commitment; the objectivity of space and time; causality and determinism; mind and body. [26S]
Exclusion: PHL330Y

PHL333H Issues in Epistemology

Typical problems: knowledge and belief, perception, the analytic-synthetic distinction, theories of truth, necessity and the *a priori*. [26S]
Exclusion: PHL330Y

PHL340H Issues in Philosophy of Mind

Typical problems: the brain-mind identity theory; intentionality and the mental; personal identity; the nature of human action. [26S]

PHL341H Freedom, Responsibility, and Human Action

Human action and the nature of freedom and responsibility in the light of contemporary knowledge concerning the causation of behaviour. [26S]

PHL342H Minds and Machines

Can machines think and feel? Are human beings simply very complicated organic machines? These questions are discussed in the light of recent work on the simulation of intelligence and purposive behaviour. [39L]

PHL344H Metalogic

Soundness and completeness of propositional and quantificational logic, undecidability of quantificational logic, and other metalogical topics. [39L]
Prerequisite: PHL345H and one full course equivalent in PHL/MAT/CSC

PHL345H Intermediate Logic

A sequel to PHL245H, developing skills in quantificational logic and treating of definite descriptions. The system developed will be used to study a selection of the following topics: philosophical uses of logic, formal systems, set theory, non-classical logics, and metalogic. [39L]

Prerequisite: PHL245H and one full course equivalent in PHL/MAT/CSC

PHL346H Philosophy of Logic and Mathematics

Platonism versus nominalism, the relation between logic and mathematics, implications of Gdel's and Church's theorems, counterfactuals, necessity and possibility, extensional and intensional contexts, intuitionism. [26S]

Prerequisite: PHL245H/MAT104H and one full course equivalent in PHL/MAT/CSC

PHL347H Many-Valued and Modal Logics

Many-valued and modal propositional logics and their interrelations; logical matrices and possible-world semantics; problems of interpretation and philosophical applications. [39L]

Prerequisite: PHL245H and one full course equivalent in PHL/MAT/CSC

Recommended Preparation: PHL345H

PHL350H Philosophy and Theories of Language

The claims of logical positivism, ordinary language philosophy, structuralism, or generative linguistics about the importance of language for philosophy; hypotheses about mind, metaphysics, and meaning. [26S]

Recommended Preparation: PHL245H

PHL351H Language and Logic

The sense - reference distinction; the theory of descriptions; model languages, the relation between theory of truth and theory of meaning, the semantics of modal notions. Readings include Frege and Russell. [26S]

Prerequisite: PHL345H and one full course equivalent in PHL/MAT/CSC

PHL355H Philosophy of Science

An investigation of the structure and methods of natural science and social science. Topics include: explanation, methodology, realism and objectivity, and the structure of theories such as relativity, Freudianism, or evolution. [26S]

Exclusion: PHL356H

Recommended Preparation: PHL245H

PHL365H Contemporary Political Philosophy

A study of some of the best recent work by political philosophers on topics such as justice, rights, welfare, and political authority. [26S]

Recommended Preparation: PHL277Y

PHL370H Issues in Philosophy of Law

Major issues in philosophy of law, e.g., responsibility and punishment, the obligation to obey the law, legal positivism, law and morality. [26S]

Recommended Preparation: PHL271H/277Y

PHL375H Contemporary Moral Philosophy

A study of some of the best recent work by moral philosophers on topics such as the objectivity of values, rights and duties, utilitarianism, and the nature of moral judgments. [26S]

Recommended Preparation: PHL277Y

PHL395H Special Seminar in The History of Philosophy

An intensive study of some historical figure, theme or period. Topic to vary from year to year. [26S]

NOTE: Prerequisite for all 400 level courses is permission of the instructor. This will normally be given only where nine half-courses (or the equivalent) in Philosophy have been completed.

PHL495H Senior Seminar in Philosophy

A seminar for advanced students in Specialist and Major Programs in Philosophy. Topic to vary from year to year. [26S]

PHL496H/497H/498H/499H Individual Studies

Contact Departmental Advisor.

Professor Emeritus

R.M. Farquhar, B.A., M.A., Ph.D., F.R.S.C.

R.F. Code, B.Sc., A.M., Ph.D.

D.J. Dunlop, B.A.Sc., M.A., Ph.D., F.R.S.C.

K.M. Hughes, B.Sc., M.Sc., Ph.D.

G.W.K. Moore, B.Sc., Ph.D.

S.W. Morris, B.Sc., M.Sc., Ph.D.

S.S.M. Wong, B.A., M.Sc., Ph.D.

Discipline Representative and

Faculty Advisor: Professor R.F. Code
(905) 828-5353
Room 4039

The domain of Physics ranges from its origins in natural philosophy to the most complex achievements of leading-edge technology. Any process which can be measured quantitatively and described by mathematical models is of interest to Physics. Combining the power of mathematics with the art of precision experiments, Physics discovers the mechanisms that interconnect diverse phenomena. Many branches of modern science and technology have arisen from a fundamental basis in Physics. Students of Physics learn a combination of solid mathematical problem-solving abilities and practical laboratory skills that can be applied anywhere: in scientific research and teaching, in architecture, in medicine or biomedical physics, in business, in computer programming, in electronics, in dentistry, in engineering, in finance, in mathematics, in pharmacy, etc. Because it emphasizes flexible analytic thinking, Physics training is an excellent preparation for many future careers.

The Physics and Physical Science programs give Erindale students broad experience in the core areas of Physics and its applications. At the second year level, courses are available for students who are interested in Biophysics or the Physics of the Climate System. The Physics Major and Minor degree programs at Erindale offer an exceptional combination of academic excellence and subject variety. The Physical Science program enables students to complete an Honours B.Sc. degree based on Physics. This Specialist program also encompasses other sciences such as Mathematics and Chemistry. Physical Science is an exciting and challenging program for students who want a deeper understanding of nature, and who wish to be introduced to the ways in which contemporary physics is related to other natural sciences. Students who would like more information about the undergraduate Physics and Physical Science programs at Erindale College are encouraged to contact the Physics Faculty Advisor by telephone at (905) 828-5350, or by e-mail at erindale@physics.utoronto.ca.

Recommended First-Year Program:

- i) For science specialists: PHY140Y; MAT138Y, (MAT112Y/132Y may be acceptable for some programs), MAT222H (for the Physics Specialist program).
- ii) For general interest: PHY135Y; MAT112Y/132Y/138Y.
- iii) For students in the Humanities and Social Sciences (Science Distribution Requirement) PHY105H/106H

A Second Course in Physics:

PHY235H is recommended for students in Biology, and PHY237H is recommended for students interested in Environmental Studies. PHY224H, 241H, and 245H are recommended for those students who want second course(s) in core Physics areas.

Note: Students interested in an Honours degree, specializing in Physics, and who have completed with good standing PHY135Y/140Y; CHM140Y; MAT(112Y, 232H)/(132Y, 232H)/138Y (preferred), 222H, and 1.5 FCE in other 100 or 200 level Erindale courses, should consult with the Department and consider enrolling in the Physics Specialist program (S19441) on the St. George Campus of the University.

PHY105H Clocks, Quanta and Chaos

(Offered in alternate years to PHY106H)

A non-mathematical treatment of some engaging ideas in modern physics, intended for non-science students. Topics include Einstein's relativity, Schrödinger's cat paradox, chaos and the arrow of time. Each is presented in its historical context. Intended as a breadth requirement for students in the Social Sciences and Humanities. [26L, 13T]
Exclusion: PHY135Y/140Y

PHY106H The Physics of Every Day Phenomena

(Offered in alternate years to PHY105H)

Physics offers an elegant framework within which to appreciate everyday experience. We take a non-mathematical look at the mechanisms behind motion, light, colour, sound, heat, electricity, magnetism, and material properties. Topics will be illustrated by familiar examples. Intended as a breadth requirement for students in the Social Sciences and Humanities. [26L, 13T]
Exclusion: PHY135Y/140Y

PHY135Y General Physics

A survey course recommended for students who major in Chemistry, Biology, or Mathematics. An overview is given of fundamental concepts such as: vector kinematics; force; torque; linear and angular momentum; rotational motion; work and energy; oscillatory motion; electricity and magnetism; thermodynamics; relativity; blackbody radiation; quantum phenomena and nuclear physics. [78L, 39P, 26T]

Exclusion: PHY105H/106H/140Y

Prerequisite: OAC Physics/P.I.; OAC Calc; OAC A&G/OAC FM

Corequisite: MAT112Y/132Y/138Y

Students without OAC Physics require P.I.

PHY140Y Principles of Physics

Recommended for all professionally oriented science students. Emphasis is placed on building physical models and developing problem solving skills. Topics include: mechanics; special relativity; gravitation; electricity and magnetism; rigid body rotation; properties of materials; vibrations and mechanical waves; thermal physics; light; the transition from classical to quantum physics. [78L, 39P, 26T].

Exclusion: PHY105H/106H/135Y

Prerequisite: OAC Physics; OAC Calc; OAC A&G (recommended) or OAC FM

Corequisite: MAT(112Y,232H)/(132Y,232H)/138Y (preferred); MAT222H (recommended).

Recommended Preparation: Students should have good standing in all prerequisites

PHY224H Techniques of Physical Measurement

A course illustrating some error analysis and laboratory measurement techniques used in pure and applied physics. Experiments are chosen from a number of different fields in physics. This is the basic laboratory course for the Physics Major program and for the Physical Science Specialist program. [26L, 78P]

Prerequisite: PHY135Y/140Y/CHM140Y

Corequisite: Any 200 level PHY course

PHY235H Biophysics

Selected applications of physics to medicine and biology for students in biochemistry, cell and molecular biology. Topics include: microscopy; quantum limits to vision; electrical conductivity of nerves; electro-cardiograms; ultrasound; magnetic resonance imaging; molecular transport and diffusion across membranes; nuclear medicine, radioactive tracer techniques, and dosimetry. [26L, 13T]

Prerequisite: (PHY135Y/140Y)/(BIO151Y/ENV100Y,CHM140Y),MAT112Y/132Y/138Y

PHY237H The Physics of the Climate System

Introducing the basic physical processes that govern the earth's climate system. Observation of the climate will be explained through an examination of (for example) planetary motion, the greenhouse effect, radiative transfer, energy balance, the hydrological cycle, and the atmospheric and oceanic circulations. The issue of climate change will be discussed. [26L]

Prerequisite: PHY135Y/140Y; MAT112Y/132Y/138Y

PHY241H Electromagnetism

Topics in electricity and magnetism, culminating in Maxwell's equations. Electric fields and Gauss' Law, conductors, capacitors, and dielectrics. Magnetic fields, magnetic materials and devices, induction and Faraday's Law, AC circuits. Maxwell's equations and electromagnetic waves. Vector analysis will be introduced as needed. [26L, 13T]

Exclusion: PHY240Y

Prerequisite: PHY135Y(minimum of 70%, or P.I.)/140Y;MAT(112Y,232H)/(132Y,232H)/138Y

Recommended Preparation: MAT222H

PHY245H Vibrations and Waves

The analysis of vibrating systems and wave motion, introducing mathematical techniques, such as complex numbers, eigenvalue problems, and Fourier series. Topics include: simple and coupled oscillators; dispersion relations and boundary conditions; travelling waves; propagation of electromagnetic waves in materials; reflection and transmission of waves at interfaces. [26L, 13T]

Prerequisite: PHY241H

JCP321H Introduction to Quantum Mechanics

A first course covering basic concepts of quantum chemistry and physics. Topics include: De Broglie waves and wave-particle duality, the postulates of quantum mechanics, the Schrödinger equation, the square potential well and potential barriers, the harmonic oscillator, the rigid rotor, atoms, molecules and solids. [39L]

Exclusion: CHM229H(G),321H,327Y(G); PHY247H,257H

Prerequisite: PHY135Y (minimum of 70% or P.I.)/140Y;MAT212H/222H/232H/248H/258Y;CHM221H/(PHY241H,245H)

JCP322H Introduction to Statistical Mechanics

Statistical methods for bridging the quantum behaviour of atoms and molecules to their macroscopic behaviour in solid, liquid and gaseous states. The course introduces partition functions, canonical ensembles, and their application to thermodynamic properties such as entropy, heat capacity, equilibrium constants, reaction rates, and Bose-Einstein/Fermi-Dirac distribution functions. [39L]

Exclusion: CHM229H(G), 322H, 327Y(G); PHY258H, 348H

Prerequisite: JCP321H

PHY324H Third Year Physical Science Laboratory

A continuation of experiments that illustrate important techniques in physics at an intermediate level. Topics include: fiber optics and laser physics, optical interferometers, atomic spectroscopy, microwave optics, absorption of gamma rays, nuclear coincidence counting, gamma ray spectroscopy, X-ray quantum physics, nuclear magnetic resonance, field emission of electrons. [78P]

Exclusion: PHY326H

Prerequisite: PHY224H, (241H, 245H)/240Y

PHY341H Electromagnetic Radiation and Matter

An overview of electromagnetism leading to the study of radiation. A review of electrostatics, magnetostatics, and Maxwell's equations is followed by a discussion of propagating, non-propagating and guided waves; interactions with dielectric boundaries; multipole radiation fields, and simple models of optical dispersion. [26L, 13T]

Exclusion: PHY334H

Prerequisite: PHY240Y/241H, 245H

PHY345H Computational Methods in Physics

An introduction to computational techniques used in physical problems. Topics include statistical analyses, Monte Carlo simulations, algebraic and numerical methods to solve equations, and graphical presentation of results. Phenomena that can be best understood through computer modelling, and "hands-on" problem-solving skills are emphasized. Maple will be the main software tool. [26L, 13T]

Prerequisites: (PHY241H, 245H) or P.I.

PHY424H Fourth Year Physical Science Laboratory

A senior laboratory course in Physics which is a continuation of PHY324H. [78P]

Exclusion: PHY326H

Prerequisite: PHY324H

PHY443H Linear and Non-linear Mechanics

An introduction to modern dynamics, using the Lagrangian and Hamiltonian formulations. Exact solutions for orbital and rotational motion are discussed. Deterministic chaos in discrete, dissipative and Hamiltonian dynamical systems are investigated using numerical and phase space methods. Other topics include the fractal geometry of strange attractors, cellular automata and complexity. [26L, 13T]

Exclusion: PHY333H/343H

Prerequisite: PHY245H (recommended), MAT212H/258Y

Corequisite: MAT311H

PHY444H Planetary Physics

A quantitative physical description of the Earth; its dynamics, internal structure and tectonic history. Topics covered are plate tectonics and continental drift, radiometric dating of rocks, the Earth's rotation, dynamics, gravitational and magnetic fields, ancient magnetic fields, and seismological evidence for the internal structure and composition of the Earth. [26L, 13T]

Exclusion: JGP334H, PHY344H

Prerequisite: PHY241H, 245H OR P.I.

PHY472H Introduction to Research in Physics

(Formerly PHY470Y)

An experimental or theoretical research problem under the supervision of a Physics professor. By special arrangement, this research problem may be started during the summer before students enter their final year.

Prerequisite: Permission of the Physics Faculty Advisor

PHY473H Supervised Readings

(Formerly PHY471Y)

A program of individual study chosen by the student with the advice of, and carried out under the direction of a Physics professor. This course is intended either for specializing further in a subject, or for exploring topics in Physics not covered by existing courses.

Prerequisite: Permission of the Physics Faculty Advisor

R.S. Beiner, B.A., D.Phil.
A. Braun, B.A., M.A., Ph.D.
J. Carson, M. Litt (Oxford)
R.B. Day, B.A., M.A., Dip. R.E.E.S., Ph.D.
R. Iton, B.A., M.A., Ph.D.
D. Pokorny, M.A., Ph.D.
P. Silcox, B.A., Dipl. of Soc. Admin., M.A., Ph.D.
P. Solomon, B.A., M.A., Ph.D.
G. White, B.A., M.A., Ph.D.
D.A. Wolfe, B.A., M.A., Ph.D.

Assistant Chair and

Faculty Advisor: Professor G. White
(905) 828-5229

When one asks after the subject-matter of botany or geography or economics, one may hope for a reasonably straightforward and uncontroversial answer. But to ask after the subject-matter of political science immediately plunges one into controversies no less deep and intractable than those that grip political life itself. What is politics? Answers range all the way from, at one extreme, Plato's "the art whose business it is to care for souls", to, at the other extreme, Harold Laswell's "who gets what, when, how". For this reason, the study of politics makes uncommon demands on one's critical faculties; in fact, it is the leading aim of political science to cultivate just this capacity for critical reflection. To be sure, the student of politics can expect to be asked to master a great mass of plain facts, with a view to explaining what makes bureaucracies work; how great powers rise and fall; what constitutes the difference between an effective public policy and a misguided one; how one designs an unbiased opinion poll; what factors shape international decision-making; and so on. Indeed, important disciplines within political science address questions like these. But not even the greatest exertion of fact-mongering can relieve the student of the need to ponder the more far-reaching questions: Who ought to rule? What is legitimacy? Are liberty and equality compatible? How does one adjudicate between competing ideas about democracy? What are the abiding needs of human beings as such? Are we by nature political animals? In short, one cannot study the doings of citizens, public servants, and governments in abstraction from the attempts, from Plato onwards, to define the very nature of politics itself.

Perhaps it might be said that political science caters to every taste, from those preoccupied solely by the question of how one can rise to be premier of Ontario, to those whose chief longing is to glimpse the true nature of justice. Put less vulgarly, this suggests that the study of politics encompasses the entire range of human concerns in their full diversity. Aristotle went so far as to claim that political science is the "ruling science" insofar as it inquires not merely into this or that aspect of human affairs, but looks to the comprehensive order within which all human activities and practices are governed. It seems fair to say that the subsequent development of Political Science as an intellectual discipline has not left behind this ancient claim, but confirmed it ever anew. It may be admitted that graduates in political science do not typically go on to become professional politicians. More frequently, they proceed to careers in law, journalism, the civil service, and government-business relations.

Students are urged to consult the Erindale Political Science Handbook and the Political Science Undergraduate Handbook (available in the Political Science office, Room 207 Kaneff Building), both of which are published in the Spring, for detailed information on course offerings.

Students contemplating taking either 300 or 400 level courses in Political Science at the St. George Campus are advised to consult either the Assistant Chair or the Undergraduate Secretary of the Department (416-978-3340) about balloting procedures.

POL100Y Introduction to Canadian Politics

A study of the political process in Canada, including Canadian political culture, the formation of public opinion, political behaviour, political parties, the constitution, federalism, French Canada, federal-provincial financial relations, and the structure and functioning of political institutions, such as the cabinet, parliament, the judiciary, and the public service. [52L, 26T]

NOTE: 200 level POL courses other than POL209Y require standing in either one full 100 level POL course or in at least 4.0 FCE in the Faculty; POL209Y prerequisites are listed.

POL200Y Political Theory

The development of political thought to the 17th century. Among the theorists examined are Plato, Aristotle, Machiavelli, Hobbes and Locke. [52L, 26T]

POL201Y Politics of the Third World

The purpose of this course is to introduce students to the analysis of Third World Politics from the standpoint of the dynamics of underdevelopment. It aims to make students acquainted with the interaction amongst contemporary political structures, ideologies and processes of socio-economic change that occur in the so-called Third World countries. Emphasis is placed on the understanding of the nature and causes of, and responses to, problems of underdevelopment (or, as conventional wisdom has it, Third World's failure to develop). Theories of underdevelopment; the historical roots of underdevelopment; development styles; militarization; political instability; revolutionary changes, and recurrent political processes are discussed by reflecting on the national histories and social structures of countries such as Brazil, Chile, Senegal, and "troubled areas" such as Southern Africa and Central America. [52L]

POL203Y Politics and Government of the United States

A comparative study of the development of American government and the main elements of the American political tradition; the structure and functioning of executives, legislatures, courts, bureaucracies, parties, and pressure groups in federal and state government; characteristic processes of American politics such as voting, bargaining, and regulation; and resultant patterns of public policy. [52L]

POL204Y Politics and Government of the U.S.S.R. and its Successor States

The formation and development of the Soviet System of government under Lenin and Stalin; Soviet politics in the post-Stalin era and the struggle for reform; the collapse of Communist party rule and the Soviet state; government and politics in the new Russia, with comparisons to other successor states. [52L]

POL205Y Contemporary British Politics

The main theme of this course is the effect of economic decline and the loss of great power status on political processes and political institutions in Britain. Particular attention will be paid to the impact of social and economic change on the political parties and the party system. [52L]

POL208Y Introduction to International Relations

The contribution of the individual, the group, the nation, the state, and the international system to conflict and conflict management in the nineteenth and twentieth centuries, and an examination of the problems of equity and justice in the contemporary international system. [52L, 26T]

POL209Y Canadian Public Policy in the Era of Globalization

Examines the changing international context of Canadian public policy, particularly the growing integration of Canada within the global economy and its implications for the scope of public policy in Canada. Reviews the institutions and processes for public policy-making at the national level and their capacity to respond to the pressures and challenges of globalization. Focuses on the implications of these developments for specific areas of public policy, including some of the following: macroeconomic policy, industrial policy, social policy, regional development, trade policy, environmental policy and labour market policy. [52L, 10T]

Exclusion: POL307Y

Prerequisite: POL100Y/102Y

POL302Y Politics of Western Europe and the European Union

Political institutions and processes in Western Europe, with special reference to Britain, France, Germany and Italy. Evolution of the European Union, its institutions and policy-making system. [52L]

Prerequisite: POL100Y/203Y/204Y/205Y

POL309Y The State, Planning and Markets

A study of the political economy of planning and markets, the history of both forms of organization, the political philosophies of liberalism and Marxism upon which they have been based, and the issues of economic efficiency, justice and democratic control in capitalism and socialism. [52L]

Exclusion: POL214Y

Prerequisite: POL100Y/102Y/ECO100Y

POL312Y Canadian Foreign Policy

A theoretical and historical view of Canada's external relations; the Canadian foreign policy process, including policy approaches, government decision-making, domestic and external processes and instruments, techniques and bargaining; relations with the United States, Europe and the outer world; foreign policy in the diplomatic, military, economic and cultural sectors. [52L]

Prerequisite: POL208Y

POL316Y Contemporary Canadian Federalism

Constitutional, political, administrative, and financial aspects of federal-provincial relations, regionalism and cultural dualism. [52L]

Prerequisite: POL100Y/102Y

POL317Y Comparative Public Policy and Administration

Major theories and concepts in the fields of public administration and public policy, drawing on the experience of advanced industrialized nations. [52L]

Exclusion: POL207Y

Prerequisite: POL100Y/102Y/104Y/203Y/205Y/209Y

POL320Y Modern Political Thought

The development of political thought in the 18th and 19th centuries, including Rousseau, Burke, Hume, Kant, Hegel, the English Utilitarians (Bentham and J.S. Mill), Marx, and Nietzsche. [52L]

Prerequisite: POL200Y

POL322Y African-American Politics and Ideology

Overview of the major issues and debates that have marked the development of African-American politics since the end of the Civil War. Issues include the nationalist/integrationist debate, the class/race tension, the attempts to define and negotiate gender roles, the essentialism question, and impact of race upon formal American politics. [52L]

Prerequisite: A course in POL.

POL327Y Comparative Foreign Policy

Comparative study of the foreign policies of the Soviet Union, the United States, Great Britain, France, and Germany. [52L]

Prerequisite: POL208Y

POL328Y International Organization

A weekly two-hour lecture concerned with the development, structures, and functions of international organizations. The emphasis is on the political impact of international organizations and international law in international relations. Attention will be focused on the two universal political organizations, the United Nations and its forerunner, the League of Nations. Other international organizations will also be considered. [52L]

Prerequisite: POL208Y

POL333Y Comparative Provincial Politics

Parties and party systems, elections, voting behaviour, political culture, administrative machinery, decision-making processes and institutions, similarities and differences in public policy. [52L]

Prerequisite: POL100Y/102Y

POL336Y Ontario Politics

(formerly POL336H)

Examines the influence of social and economic forces on contemporary Ontario politics, with emphasis on major recent changes in the Ontario political system. Topics include: political parties and elections, structures of governance (cabinet, legislature, etc.), local government and selected public policy issues. [52L]

Prerequisite: POL100Y/102Y

Exclusion: POL331H

POL340Y International Law

International law as an instrument of conflict resolution. Recognition, sovereign immunity, subjects of international law, and jurisdiction are some of the subjects examined. [52L]

Prerequisite: POL208Y

400 level Topics Courses

The number of courses and the actual content of the courses will vary from year to year. For details on **specific courses** to be offered, along with their **individual prerequisites**, consult the Political Science Handbook, available every spring. **Only minimum prerequisites are listed here.** **Balloting is required for all 400 level courses.**

POL463H Topics in Comparative Politics [26S]**POL464H Topics in Comparative Politics [26S]****POL465Y Topics in Comparative Politics [52S]**

POL476H Topics in Political Economy
[26S]

POL477H Topics in Political Economy
[26S]

POL478Y Topics in Political Economy
[52S]

POL484Y Topics in Political Thought
[52L]

Prerequisite: POL200Y,320Y

POL486Y Topics in International Relations
[52S]

Prerequisite: POL208Y

POL490H Topics in Canadian Politics
[26S]

Prerequisite: POL100Y

POL491H Topics in Canadian Politics
[26S]

Prerequisite: POL100Y

POL494Y Topics in Canadian Politics
[52S]

Prerequisite: POL100Y

POL495Y Undergraduate Reading Course

This is a student-initiated course of reading and research on a specialized topic of interest to the student. It is normally only open to students enrolled in Political Science Specialist and Major programs. Students wishing to enrol must find a Faculty member willing to supervise the course, develop a program of study in consultation with the supervisor and obtain approval for the course from the Assistant Chair.

Prerequisite: Permission of Instructor and of Assistant Chair

T.M. Alloway, B.A., M.A., Ph.D.
N. Benson, B.A., M.A., Ph.D.
K. Blankstein, B.A., M.A., Ph.D.
C.M. Corter, B.A., Ph.D.
M. Daneman, B.A., M.A., Ph.D.
A.S. Fleming, B.Sc., Ph.D.
L. Krames, B.A., M.A., Ph.D.
G. Moraglia, M.Sc., Ph.D.
M. Moscovitch, B.Sc., M.A., Ph.D.
P. Pliner, B.S., Ph.D.
J. Polivy, B.S., M.A., Ph.D.
M. Ruck, B.Sc., M.A., Ph.D.
B. Schneider, B.A., Ph.D.
M.L. Smith, M.Sc., Ph.D.
S.E. Trehub, B.Com., M.A., Ph.D.

Associate Chair: Professor T.M. Alloway, Room 3036 (by appointment), (905) 828-5370.
Program Director: Professor A.S. Fleming, Room 2034A (by appointment), (905) 828-3961.

Program Advisor: Stuart Kamenetsky, Room 3055, (905) 828-3958.

Psychology is the science that examines the structure and organization of behaviour in animals and humans. It is concerned with the means by which behaviour is acquired, and explores the mechanisms of adaptation to the social and physical environments. Emphasis is on cognitive, social, physiological, genetic, and other factors that determine or affect behaviour. Among the topics covered by Psychology courses are developmental changes in behaviour, learning, the structure and organization of the senses, modes of perceiving and responding to the environment, genetic events that shape behaviour, the origins and implications of drives, motives, conflicts, and emotions, and the wide variety of individual and species differences that are produced by differences in genetic endowment, physiology, and past experience. Because of the demands of science for rigour and objectivity, emphasis is given to the techniques by which behaviour is studied. Because Psychology is concerned with the behaviour of all organisms, the discussion of animal behaviour constitutes an important part of many Psychology courses. An intensive examination of research findings is paramount in all Psychology courses.

Students who are interested in Psychology as a career must be prepared for several years of graduate study. Persons who hold a Ph.D. in Psychology find employment in universities, research institutes, hospitals and clinics, government agencies, and large corporations. A few work as self-employed consultants or therapists. The B.Sc. with a concentration in Psychology is not in itself a professional qualification. People holding bachelor's degrees in Psychology typically find employment in business, technical,

educational, or social-service areas. However, further formal or on-the-job training is usually required. Nevertheless, undergraduate courses in Psychology may be valuable to students planning professional careers in medicine, law, nursing and education, for example. Further information is available from the Program Advisor.

Students may take no more than 2.0 FCE in Individual Project or Thesis courses.

Erindale students who wish to take Psychology courses at the St. George Campus may do so provided that they have completed the prerequisite courses and they have obtained permission from the Psychology Undergraduate Advisor at the St. George Campus. Without such prerequisites, registration in a course may be cancelled at any time. If they wish to use these courses to fulfill Erindale program requirements, they must consult the Program Advisor at Erindale. Students must also consult the St. George Psychology Department regarding its balloting procedures.

PSY100Y Introductory Psychology

An examination of the science of behaviour, and use of the scientific method in the study of human and animal behaviour. This course, which includes 12 two-hour computer labs, is a prerequisite for all other Psychology courses except for PSY201H and 202H. [52L, 26P]

PSY201H(1) Research Design and Analysis in Psychology I

Basic descriptive and inferential statistics. [26L, 13T]

Exclusion: ECO220Y/227Y/STA220H/
BIO360H/SOC300Y

Prerequisite: Any OAC Mathematics/
MAT112Y/P.I.

PSY202H(1) Research Design and Analysis in Psychology II

Design of experiments and more advanced methods of statistical analysis, including complex analysis of variance. [26L, 13T]

Exclusion: ECO220Y/227Y/STA221H/
BIO361H/SOC300Y

Prerequisite: PSY201H

PSY209H Experimental Design and Theory

Problems in research design and the interpretation of experimental findings; the logical structure of psychological theories. Practice in the critical evaluation of research designs. [39L]

Exclusion: PSY409H

Prerequisite: PSY100Y

PSY210H Introduction to Developmental Psychology

(Formerly PSY210Y)

An examination of theories, methods, and psychological processes relevant to the study of development, in general, and child development in particular. Topics include historical and philosophical perspectives as well as empirical research on age-related changes in perceptual, cognitive, and social processes. [39L]

Prerequisite: PSY100Y

PSY213H Adult Development and Aging

An introduction to current research in human development from young adulthood through old age. Adult development will be examined in terms of the interplay of biological, socio-cultural, and psychological determinants, with special emphasis on psychological factors. Topics include the demographics of aging, research methods and problems, developmental changes in sensory-perceptual systems, memory, intelligence, personality, as well as issues related to mental health, dying and bereavement. [39L]

Prerequisite: PSY100Y

PSY220H Introduction to Social Psychology

(Formerly PSY220Y)

A survey of classic and contemporary research in social psychology. Topics include attitudes and social cognition, interpersonal relations, group processes, and ethnic attitudes. [39L]

Prerequisite: PSY100Y

PSY230H Introduction to Personality

A survey of theories of personality, focusing on the formation and components of personality, and an evaluation of the empirical status of each theory. [39L]

Prerequisite: PSY100Y

PSY240H Introduction to Abnormal Psychology

(Formerly PSY340Y)

A survey of contemporary issues in theory and research on abnormal behaviour and its treatment. Topics include the definition of abnormal behaviour, causes and treatment of disorders, diagnosis and assessment, incidence and prevalence, biological and psychological interventions, prevention, as well as legal and ethical issues. Does not focus on specific disorders. [39L]

Prerequisite: PSY100Y

PSY252H Animal Behaviour

A survey of the social behaviour of animals in field and laboratory settings, with emphasis on the application of evolutionary theory.

Mathematical models of evolution will be considered, necessitating a practical working knowledge of algebra at high-school or university level. Students will use computer simulations to model selected evolutionary scenarios. (Regular access to a personal computer would be advantageous.) [26L, 26P]

Exclusion: PSY250H(G)

Prerequisite: PSY100Y

PSY260H Introduction to Learning

A survey of empirical findings and theoretical interpretations relevant to the study of learning in animals and related processes in humans. Several animal learning phenomena will be studied by means of computer simulations.

(Regular access to a personal computer would be advantageous.) [26L, 26P]

Prerequisite: PSY100Y

PSY270H Introduction to Cognitive Psychology

(Formerly PSY270Y)

An introduction to contemporary theories and research related to human cognition. Topics include attention, memory, language, and problem solving. [39L]

Prerequisite: PSY100Y

PSY280H Perception

(Formerly PSY280Y)

An introduction to current empirical research in perceptual science, with primary emphasis on vision and audition. Topics in vision include anatomy and physiology of the visual system, the perception of contrast, colour, form, depth and motion. Topics in audition include anatomy and physiology of the auditory system, sound localization, the perception of pitch, loudness, and timbre. [39L]

Prerequisite: PSY100Y

PSY290H Introduction to Physiological Psychology

(Formerly PSY290Y)

An examination of principles underlying the study of the nervous system and behaviour, including aspects of normal and abnormal development. [39L]

Prerequisite: PSY100Y

PSY295H Psychology and the Brain in the Popular Press

An exploration of relations among cognition, memory, emotion and the brain, as revealed by the effects of brain damage on human behaviour. Topics include disorders of face recognition, memory, language and social interaction. By studying individual cases of brain damage (from the popular press as well as scientific journals), students will gain an appreciation of the organization of the brain and the human mind. [39L]

Prerequisite: PSY100Y

PSY305H Statistical Data Analysis

The extraction of information from real data, using both elementary and advanced methods of statistical inference. Students will use a major statistical software package such as SPSS or SAS to analyze several data sets. Statistical concepts are presented verbally rather than mathematically. Class meetings and assignments may overlap with those of STA301H. [26L, 13T]

Exclusion: STA301H

Prerequisite: PSY202H/BIO361H/ECO220Y/227Y/STA221H

Offered in alternate years.

PSY311H Social Development

A survey of contemporary research and theory in social development during childhood and adolescence, with consideration of the cultural context of development. Topics include attachment, moral development, family relations and peer relations. [39L]

Prerequisite: PSY210H/210Y/213H

PSY312H Cognitive Development

(Formerly PSY315H)

A survey of contemporary research and theory related to the development of thinking, intelligence and language. [39L]

Prerequisite: PSY210H/210Y/213H/270H/270Y

PSY315H Language Acquisition

An examination of theoretical and empirical perspectives on language and speech processing in childhood, including age-related changes in the perception and production of sounds, words, sentences, conversation, and text. Other topics include bilingualism and language disorders. [39L]

Exclusion: JLP315H(G)

Prerequisite: PSY210H/210Y/213H/270H/270Y/374H/LIN100Y/200H/JAL253H

PSY318H Developmental Neuropsychology

A survey of brain development, its relation to normal cognitive and behavioural development, the effects of early brain damage on development, and specific neurological disorders of childhood. [39L]

Prerequisite: PSY210H/210Y/213H/290H/290Y/295H

PSY319H Developmental Psychology Laboratory
(Formerly PSY419H)

Readings, laboratory exercises and research projects designed to familiarize students with methodologies relevant to research with infants and children. [39P]

Prerequisite: PSY201H, 202H (or equivalent), 210H/210Y/213H

PSY320H Advanced Social Psychology

An in-depth examination of major topics in social psychology, with emphasis on the principal research paradigms. Topics, which will vary from year to year, could include the self, attitudes, social cognition, prejudice, and cross-cultural social behaviour. [39L]

Prerequisite: PSY220H/220Y

PSY325H Cross-cultural Psychology

An examination of culture-blind and culture-bound aspects of traditional psychology. Topics include issues of diversity, cultural influences on basic psychological processes, the impact of culture on social and developmental processes, and research applications. [39L]

Prerequisite: PSY210H/210Y/213H/220H/220Y/230H/270H/270Y

PSY329H Social/Personality Laboratory
(Formerly PSY429H)

Independent research projects in social psychology or personality. Each project will include the design of an experiment, data collection, and a written report. [39P]

Prerequisite: PSY201H, 202H (or equivalent), 220H/220Y/230H

PSY331H Psychological Tests

A survey of the fundamental psychometric properties of tests, test construction, factors influencing the use and interpretation of tests, and a critical analysis of selected applications of tests. [39L]

Exclusion: PSY330H(G)

Prerequisite: 1.0 FCE in Psychology at 200 level

PSY332H Advanced Personality

The extension of major theories of personality to treatment (therapy) for personality disorders, and research growing out of the theories. [39L]

Exclusion: PSY343H(G)

Prerequisite: PSY230H

PSY340H Abnormal Psychology: Adult Disorders
(Formerly PSY340Y)

An examination of current theory and research related to the origin and treatment of specific psychological disorders. Biological and psychological approaches will be considered, with special emphasis on social learning theories and cognitive-behavioural interventions. [39L]

Prerequisite: PSY240H

PSY341H Abnormal Psychology: Disorders of Children and Adolescents

Considers concepts of normal, abnormal and delayed development. Schemes of classification and diagnosis, approaches to identification of causes, and contemporary treatment methods are critically evaluated. The emphasis is on controlled research as a primary source of knowledge about psychological disorders and treatment. [39L]

Prerequisite: PSY210H/210Y, 240H/340Y

PSY345H Exceptionality: Disability and Giftedness

A survey of contemporary research, theory, and methodology related to exceptionality in human learning, with special emphasis on developmental disability and giftedness.

Topics include hearing impairment, visual impairment, physical disabilities, learning disabilities, communication disorders, behaviour disorders, developmental delay, giftedness, and autism. [39L]

Exclusion: PSY442Y

Prerequisite: PSY210H/210Y/213H

PSY374H Psychology of Language

An examination of contemporary approaches to the psychological study of language and speech, with emphasis on the biological, cognitive, and cultural aspects of language use. Topics include language comprehension, language production, and language disorders. [39L]

Exclusion: JLP374H(G)

Prerequisite: PSY270H/270Y/315H

PSY379H Cognitive Psychology Laboratory
(Formerly PSY479H)

Readings, laboratory exercises, and research projects designed to familiarize students with methodologies relevant to empirical research in cognitive psychology. [39P]

Prerequisite: PSY201H, 202H (or equivalent), 270H/270Y

PSY385H Hearing and Hearing Disorders

Sound waves impinging upon our ears convey information about the presence, location, and identity of objects in our environment. An examination of the extraction of this information from sound waves and of the disruption of speech understanding and communication by various peripheral and central disorders. [39L]

Exclusion: PSY381H

Prerequisite: PSY280H/280Y

PSY393H Cognitive Neurology

Problems in cognitive psychology will be explored from the viewpoint of clinical neurology. Sample topics include amnesia and models of memory, split-brain research, the temporal lobes and verbal and non-verbal memory, the role of the frontal lobes, perceptual asymmetries, and models of brain function. [39L]

Prerequisite: PSY270H/270Y/290H/290Y/295H

PSY395H Hormones and Behaviour

An evaluation of relations between the hormonal system and brain/behaviour in a variety of species (including humans). Behavioural/functional systems to be considered include the reproductive behaviours (sexual and maternal), aggression, circadian rhythms, seasonal rhythms, eating, affective states, learning and memory. [39L]

Prerequisite: PSY290H/290Y/BIO204H

PSY397H Memory: a Cognitive Science Approach

An examination of brain mechanisms involved in memory, with primary emphasis on human memory. Topics include mechanisms and processes involved in encoding, consolidating, storing and recovering information, and their relation to distinctions between episodic versus semantic memory, long-term versus short-term memory, and explicit versus implicit memory. [39L]

Prerequisite: PSY260H/270H/270Y/290H/290Y/295H

PSY398H Motivational Systems

An examination of the psychological mediators of motivational and/or homeostatic systems, including eating, drinking, and sexual differentiation, as well as sexual, maternal and aggressive behaviour. Consideration of the underlying neuroanatomy, neuroendocrinology, hormonal and sensory mechanisms. In-class demonstrations with rats. [39L]

Prerequisite: PSY290H/290Y/BIO204H

PSY399H Psychobiology Laboratory

(Formerly PSY499H)

Supervised demonstration experiments designed to familiarize students with methods of collecting, analyzing, and reporting data from ethological and physiological experiments with animal subjects. Students handle selected species of animals. [39P]

Prerequisite: PSY201H,202H (or equivalent), 290H/290Y

PSY400Y Thesis

Independent research supervised by individual faculty members. Seminars on general topics relevant to the conduct of independent research, student research proposals, and the presentation of findings. Admission by academic merit. Students are admitted in the summer prior to their final year of study and are directed to faculty members in their area of interest. [78S, 78P]

Prerequisite: PSY201H,202H (or equivalent), laboratory course in Psychology, satisfactory progress in the Specialist Programs of Psychology, Exceptionality in Human Learning or Animal Behaviour.

PSY402H Systems of Psychology

An analysis of the historical, conceptual, and methodological foundations of current approaches to the study of the mind and behaviour (e.g., behaviourism, psychoanalysis, humanistic psychology, information processing). Topics vary periodically. [39S]

Prerequisite: 1.0 300 level FCE in Psychology

PSY403H/404H/405H/406H Individual Project

Independent research on a specific aspect of human or animal behaviour. Students arrange for a Faculty supervisor during the preceding term.

Prerequisite: PSY201H,202H (or equivalent), laboratory course in Psychology, 1.0 300 level FCE in Psychology

PSY410H Special Topics in Developmental Psychology

In depth examination of selected topics in developmental psychology. (Topics change periodically.) [39S]

Prerequisite: PSY210H, 1.0 FCE from PSY311H/312H/315H/318H/319H/341H/345H/442Y

PSY415H Special Topics in Adult Development and Aging

In depth examination of selected topics in adult development and aging. (Topics change periodically.) [39S]

Prerequisite: PSY213H, 1.0 FCE from PSY311H/312H/319H/320H/325H/332H/340H/345H/ 374H/385H/442Y

PSY420H Special Topics in Social Psychology

In depth examination of selected topics in social psychology. (Topics change periodically.) [39S]

Prerequisite: PSY220H/220Y, 1.0 FCE from PSY311H/319H/320H/325H/329H/332H/340H/341H

PSY430H Special Topics in Personality

In depth examination of selected topics in personality. (Topics change periodically.) [39S]

Prerequisite: PSY332H, one of PSY311H/320H/325H/329H/331H/340H

PSY440H Special Topics in Abnormal Psychology

In depth examination of selected topics in abnormal psychology. (Topics change periodically.) [39S]

Prerequisite: PSY340H/340Y, one of PSY320H/331H/332H/341H/345H/385H/442Y

PSY442Y Practicum in Exceptionality in Human Learning

Seminar and practicum on issues relating to the life-long development of disabled individuals. Seminar at Erindale; practicum involves supervised placement in schools, social services agencies or hospitals. Priority admission to Exceptionality in Human Learning Specialists. [78S, 78P]

Exclusion: PSY345H

Prerequisite: 10.0 completed courses, including PSY210H/210Y/213H, 1.0 additional 200+ level FCE in Psychology

PSY471H Special Topics in Cognitive Psychology

In depth examination of selected topics in cognitive Psychology. (Topics change periodically.) [39S]

Prerequisite: PSY270H/270Y, 1.0 FCE from PSY312H/315H/374H/379H/393H/397H

PSY480H Special Topics in Perception

In depth examination of selected topics in perception. (Topics change periodically.) [39S]

Prerequisite: PSY280H/280Y, 1.0 300 level FCE in Psychology

PSY490H Advanced Topics in Biological Psychology

In depth examination of selected topics in biological psychology. (Topics change periodically.) [39S]

Prerequisite: PSY270H/270Y/290H/290Y/295H/BIO204H; 1.0 FCE from PSY393H/395H/397H/398H/399H/BIO304H

PSY495H Special Topics in Neuropsychology

In depth examination of selected topics in neuropsychology. (Topics change periodically.) [39S]

Prerequisite: PSY290H/290Y/295H, 1.0 FCE from PSY315H/318H/374H/379H/393H/397H

B. Henaut, B.A., M.A., Ph.D.
 M.J. Lavelle, B.A., M.A.
 N.F. McMullin, B.A., S.T.B., M.Th., Ph.D.
 L.E. Schmidt, B.A., M.A., Ph.D.
 J.C. Wolfart, B.A., M.A., Ph.D.

*Discipline Representative and
 Faculty Advisor:* Professor L.E. Schmidt
 Room 124
 (905) 828-3771

Certain forms of human behaviour are widely considered "religious." Moreover, many of us conceive of religion generically, in terms of myths, rituals, doctrines, institutions, etc. Using such categories, students of religion usually classify all religions in relation to a relatively limited number of major traditions called "World Religions." Yet, sophisticated and powerful explanatory models of culture and society depend upon this apparently simple framework. The critical examination and application of such models is what the academic study of religion is about. The Department for the Study of Religion explores religious traditions with intellectual openness and scholarly rigour, without evaluating their specific truth claims.

The study of religion is therefore an excellent education for life in a world of social and cultural complexity. As a mode of enquiry, it is intrinsically rewarding, but it is also a uniquely valuable preparation for a wide range of careers in (among other things) government, business, law, social work, teaching, medicine and community leadership. Of course, the academic study of religion can also lead to graduate work (for example at the University of Toronto's Centre for the Study of Religion). While students at Erindale may major and specialize in a variety of programs, the particular strength of the Department for the Study of Religion at Erindale is in the area of "religion and society." Certain courses from other Erindale departments, such as FAH343H and FAH353H, may be integrated into an RLG program. For further information, please consult the Department for the Study of Religion handbook available in the office of the departmental secretary (Room 227, North Building) or from any RLG instructor. Should you wish to set up an appointment with a faculty advisor, please contact Ms. Julie Waters (905) 828-3725 or e-mail: jwaters@credit.erin.utoronto.ca.

RLG100Y An Introduction to the Religious Traditions

An introductory survey of the main teachings, practices and institutions of the major, and several of the minor, religious traditions: Namely, Buddhism, Christianity, Confucianism, Hinduism, Islam, Jainism, Judaism, Shinto, Sikhism, Taoism and Zoroastrianism. [52L, 26T]

Exclusion: REL100Y/REL220Y

RLG105Y Contemporary Problems in Religious Ethics

An introduction to the analysis of ethical problems in the context of the religious traditions of the West. Abortion; euthanasia; poverty; environmental degradation; militarism; sex, marriage and the changing roles of men and women; reproductive technologies. [52L, 26T]
Exclusion: REL105Y

RLG206Y The Buddhist Religious Tradition

The teachings of the Buddha and the development, spread, and diversification of the Buddhist tradition from southern to northeastern Asia. [52L, 26T]
Recommended Preparation: RLG100Y

RLG225H Christian Ethics and Human Sexuality

The basis in Christian ethics for: a formulation of standards of inter-personal conduct and sexual relations; an analysis of changing sexual mores, familial structures and childrearing techniques; and a critical evaluation of the development of reproductive technologies (e.g. artificial insemination, surrogate motherhood). [26S]
Exclusion: REL223H
Recommended Preparation: RLG105Y

RLG228H Religious Ethics, the Environment

An examination of the ways that (particularly Christian) religious beliefs and practices have influenced western attitudes to nature and the analysis of such ethical issues as population growth, environmental degradation and global warming. [26L]
Recommended Preparation: RLG105Y

RLG230Y Religion and Literature

The problems of doubt and faith, despair and hope, flesh and spirit, vice and virtue, sin and grace, suffering and freedom, mortality and immortality, in the works of selected imaginative writers. Critical analysis, in terms of classical theological categories, of selections from such authors as Dostoyevsky, Bermanos, Mauriac, Eliot and Camus. (All works to be read in English). [52L, 26T]
Exclusion: REL203Y

RLG238H Religion and Identity in Canada

Personal and social identity as created and expressed through such Canadian religious groups as "mainline" religious traditions, evangelical sects, pentecostal-charismatic movements, ethnic churches, and the "new religions". Religious behaviour studied as the interplay between believing and belonging. [26S]
Exclusion: REL207H
Recommended Preparation: RLG105Y

RLG241Y Early Christian Writings: The New Testament

An introduction to the types of literature in the New Testament (Gospels, Acts, Epistles, Apocalypse) and to the distinctive content of the literature as a whole. The history of texts and versions, the process of canonization of the literature, and the critical methods of scriptural study are examined. [52L, 26T]
Exclusion: REL241Y

RLG242Y History of Christianity

The developments of Christian doctrines, rituals and institutions from the third century to the Reformation in specific social and historical contexts. Basic vocabularies and key concepts of pre-modern Christianity, as well as problems of historical knowledge and interpretation, are explored. [52L]

RLG243Y Major Themes in Biblical Literature

Major religious themes running through biblical literature. Old and New Testament concepts of creation, election, covenant, salvation, divine law, prophecy, wisdom, justification, etc. [52L, 26T]

Exclusion: REL212Y

RLG246Y The Age of Religious Conflict: Catholics and Protestants in Historical Perspective

The history, intellectual setting, social contexts and historical significance of the Reformation; special attention to works by Hus, Wycliffe, Luther, Zwingli, Bucer, Calvin and others. These will be studied with regard to diverse intellectual and social movements including scholasticism, humanism, communalism, anabaptism, puritanism and catholic reform. [52L]

Exclusion: RLG332Y

RLG272Y China: Culture and Society from Ancient Times to the Present Day

An examination of the ways in which the major religious traditions (Daoism, Confucianism, Buddhism) have shaped Chinese culture and society. Topics include: divination; myths about the emperor and the state; Daoist masters; Confucian sages; Buddhist monks; and modern views about the individual, the family and the nation. [52L, 26T]
Recommended Preparation: RLG100Y

RLG273Y Japan: Culture and Society from Ancient Times to the Present Day

An examination of the ways in which the major religious traditions (Shinto, Confucianism, Buddhism) have shaped Japanese culture and society. Topics include: Myths about the emperor and the state; Buddhist monasteries; Shogun; Samurai and the "way of the warrior" and modern views about the individual, the family and the nation. [52L, 26L]

Recommended Preparation: RLG100Y

RLG309Y Religion, Morality, Law

Explores legal, religious and moral discourse with emphasis on specific historical cases and debates drawn mainly from the Western, Christian tradition. Topics include: church and state conflicts, the historical relation between evangelicalism and codified law, attempts to regulate the domestic sphere (marriage and sexuality, charity and welfare), religious and legal arguments in political resistance and the relation of religion and law to identity formation. [52L]

RLG323H Jesus of Nazareth

Analytic and comparative study of the earliest accounts of Jesus; the "historical Jesus", viewed in the light of Jewish Messianic expectations. [26L, 13T]

Exclusion: REL314H

Prerequisite: One RLG course

Recommended Preparation: RLG241Y

RLG324H Paul of Tarsus

The literary form of Paul's letters, the sources of his thought, and the theological view that emerges. [26L, 13T]

Exclusion: REL319H

Prerequisite: One RLG course

Recommended Preparation: RLG241Y

RLG329Y The Development of Christian Identity

The development of Christian identity, as examined from a psycho-social, ethical and theological perspective, and as revealed in personal documents like auto-biographies, diaries and letters. [52S]

Exclusion: REL375Y

Prerequisite: one RLG course

Recommended Preparation: RLG105Y/213Y

RLG338Y Technology, Ethics and the Future of Humanity

The role of technology within various projections of global economic development examined from a Christian ethical perspective. Ethical responses to some of the problems which threaten the future of humanity:

poverty, resource depletion, environmental degradation and the arms build up. [52L]

Exclusion: RLG224H

Prerequisite: One RLG course

Recommended Preparation: RLG105Y

RLG371H Buddhism in East Asia

The schools of Buddhism in East Asia, with focus on two principal ones: Ch'an (Zen) and Pure Land. Readings in translation from their basic sutras. [26L]

RLG373H Modern Japan: Culture and Society

The impact of modern technological developments and Western culture on traditional Japanese society. The role of the "New Religions" as well as the older traditions in 20th century Japan. [26L, 13T]

Exclusion: REL347H

Prerequisite: One RLG course

Recommended Preparation: RLG100Y/207Y/273Y

RLG374H Buddhism: Its Origins and Development

The origin and development of Buddhist teachings, practices and institutions in India. Common and distinctive characteristics of the three main branches of Buddhism (Theravada, Mahayana and Tantra), and the ways in which developments in the Buddhist tradition reflected and addressed major changes in the societies in which the tradition existed. [26L]

Exclusion: RLG367Y

RLG490Y Individual Studies

Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for Specialists and Majors. After obtaining a supervisor, a student must apply to the Department.

Exclusion: REL490Y

RLG491H Individual Studies

Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for Specialists and Majors. After obtaining a supervisor, a student must apply to the Department.

Exclusion: REL491H

RLG492H Individual Studies

Student-initiated project of reading and research, supervised by a member of the Department. Primarily intended for Specialists and Majors. After obtaining a supervisor, a student must apply to the Department.

Exclusion: REL492H

Professor Emeritus

M.W. Spencer, A.B., M.A., Ph.D.

M. Blute, B.A., M.A., Ph.D.

D. Brownfield, B.A., M.A., Ph.D.

D.F. Campbell, B.A., M.A., Ph.D.

H. Friedmann, A.B., M.A., Ph.D.

B.S. Green, B.A., Ph.D.

J.B. Kervin, B.A., Ph.D.

T. Peressini, B.A., M.A., Ph.D.

E. Silva, B.A., M.A., Ph.D.

J.H. Simpson, B.A., B.D., Th.M., Ph.D.

G. Stevens, B.A., M.A., Ph.D.

Discipline Representative and

Faculty Advisor: Professor D. Campbell

Consult on Wednesdays through Fridays.

(905) 828-5317. Or see Departmental

Secretary, Room 2098, (905) 828-5395.

Sociology is the study of human group life. It explores the processes by which people fit their activities together. For example, it studies how children acquire the habits of their groups, how adults deal with conflicts, how misfits are punished, how social rankings are maintained, and how entire societies industrialize. Students in other fields may gain from Sociology a clearer view of the human condition. In the range of topics that it covers, Sociology is an extraordinarily broad area. However, sociologists pose characteristic kinds of questions, and by limiting the scope of their questions they define the boundaries of their discipline. Mainly, sociological research is the pursuit of generalizable answers to puzzling questions about the causes and consequences of recurring patterns, or "structures," of group activities.

Students may select from a variety of special areas of interest in their Specialist or Major programs. They may also consult with the department for other combinations of courses such as those emphasizing Canadian society, interpersonal relations, or research methods. The Department offers a Specialist, a Major, and Minor program in Sociology, and a Major in Crime & Deviance.

BALLOTING: Admission to all Winter session Sociology courses (except SOC101Y) that are offered on the Erindale Campus will be based on the results of balloting during the spring and summer of the previous academic year.

SOC101Y Introduction to Sociology

An introduction to the basic concepts, principles, and methods of sociology as a discipline for the study of society. [52L, 26L/26T]

SOC200Y Introduction to Social Research
How social observations are used to develop and test sociological ideas. A variety of theoretical approaches and research techniques are critically examined to illustrate general principles of conceptualization, measurement, and explanation. [52L, 26T]
Prerequisite: SOC101Y

SOC202Y Structure of Interpersonal Relations
A study of patterned relationships, social roles, and social expectations that arise out of interaction among individuals. [52L]
Prerequisite: SOC101Y

SOC205Y Urban Sociology
Examines the city both as a significant development in world civilization and a working mechanism guided by contemporary policies. Studies human behaviour in its multifaceted relations with the urban environment. [52L]
Prerequisite: SOC101Y

SOC206Y Social Organization
Classical and recent theories specifying the organizational bases of different types of society. These are applied comparatively through empirical studies of selected topics. [52L]
Prerequisite: SOC101Y

SOC207Y Sociology of Work and Occupations
The course begins with an overview of those historical forces which gave rise to the industrial state and the occupational structure nourished by it. Managerial ideologies which seek to legitimize superordination and subordination within this system are reviewed—Taylorism and Human Relations to name but two. The role of technology in the workplace, occupational choice and occupational socialization are then reviewed. Role conflict in white-collar occupations, trait and power approaches to the professions and cross-cultural examination of the Japanese work environment will round out lecture presentations. [52L]
Prerequisite: SOC101Y

SOC210Y Ethnicity in Social Organization
Impact of racial, ethnic, and linguistic heterogeneity and of various patterns of immigration on economic, political, and cultural institutions, and on individual identity, self-conceptions, social attitudes, and relations. [52L]
Prerequisite: SOC101Y

SOC211H Deviance and Social Control
(Formerly SOC212Y)
A sociological analysis of deviant behaviour which examines theories of its genesis, social definition, maintenance, control, and social consequences. [26L]
Prerequisite: SOC101Y

SOC214Y Sociology of the Family
Development of the contemporary western family with special emphasis on changing relations among its members. [52L]
Prerequisite: SOC101Y

SOC215Y Socialization
The acquisition and reproduction of personality, culture, and social structure. Topics will include socialization and the socio-biology debate, psycho-social, cognitive, and behaviouristic approaches to human development, child-rearing practices, sex-role acquisition and learning, structural influences on values, attitudes and aspirations, political socialization, adult socialization and aging, and the comparative study of socialization. [52L]
Prerequisite: SOC101Y

SOC220Y Canadian Society
This course employs classical Canadian social science works to investigate the central themes of the Canadian experience and then links these themes to the contributions of contemporary scholars. [52L]
Prerequisite: SOC101Y

SOC231Y Peace and War
Violent and nonviolent struggles. Biological, psychological, and social sources of war. The historical frequencies and locations of wars. Global militarization: causes, consequences, possible alternatives. Nonthreatening defence. Who profits from the arms trade? Is war ever justifiable? Mediation. Successful bargaining. Proposals for international order and security, sustainable economic development, and justice. [52L]
Prerequisite: SOC101Y/PSY100Y/HIS109Y/PHL101Y

SOC252Y Introduction to Communication Theory and Research
(Formerly SOC152Y)
An introduction to a variety of theories and empirical methods used to describe and explain verbal and non-verbal forms of communication. The course will cover aspects of interpersonal, literate and electronic communication and provide a solid background for courses offered at higher levels in the area of communications [52L, 26T]
Prerequisite: SOC101Y

SOC277Y Globalization

The origin, structure and dynamics of the world as a global system. Population, settlement patterns, nations, the state, politics, war, law, human rights, the global economic system, environment, organizations, cyberspace, post modernity. [52L]

Prerequisite: SOC101Y

SOC280Y Genocide and Social Disaster

The study of "ordinary" members of mundane settings (town, ethnic/religious group, country, etc.) finding themselves in extreme life and/or human rights-threatening situations (e.g. ghettoization, internment in death/concentration camp, exile, natural disaster, etc.) Emphasis on how members shuttle in and out of the roles of perpetrator, victim, spectator, survivor, rescuer. [52L]

Prerequisite: SOC101Y

SOC300Y Quantitative Analysis

An introduction to data analysis which emphasizes understanding rather than mathematics, exploratory techniques (how to look for hypotheses); corresponding confirmatory techniques (how to test hypotheses). Basic analysis of variance, regression, chi-square; tables and graphs. [52L]

Exclusion: Statistics courses but not STA242Y, PSY201H, 202H

Prerequisite: SOC101Y, 1.0 SOC course at the 200 level, (SOC200Y is highly recommended).

SOC301Y Social Inequality

Examines the causes, prevalence and manifestations of social, political and economic inequalities, internationally and within Canada. Particular focus is placed on the ascriptive and other characteristics of people that lead to their being victims or beneficiaries of inequality—gender, age, ethnicity-race, social class of their parents, location of residence in Canada, disability. The various circumstances of inequality are examined through multiple theoretical and empirical perspectives. Additional emphasis is placed on the possible means to lessen or eliminate social inequalities. [52L]

Prerequisite: SOC101Y, 1.0 SOC course at the 200 level

SOC303H Careers in Crime and Delinquency

An examination of delinquent and criminal lifestyles from the perspectives of social psychology, the sociology of occupations, and the sociology of law. The etiology, social history, organization, and societal response to different types of crime and delinquency are considered. Special attention is given to the career criminal. [26L]

Prerequisite: SOC101Y, 211H

SOC304Y Change and Conflict in Contemporary Society

The sociological aspects of the world economy and state system in historical perspective. Institutional and social bases of markets, especially land, labour, and money. Patterns of state formation, including colonialism, national states. Evaluation of conceptual frameworks, such as first/second/third world; North/South; capitalist/socialist; and national/transnational. Contemporary changes in agriculture and industry. Special emphasis on gender, race, and class relations. [52L]

Prerequisite: SOC101Y, 1.0 SOC course at the 200 level

SOC305Y Sociology of Religion

Various theories of religious behaviour and organization are examined with special attention given to the role of religion in relation to social change and social integration. Current research and methods of study will be stressed. [52L]

Prerequisite: SOC101Y, 1.0 SOC course at 200 level

SOC307H Crime and Delinquency

(Formerly SOC306Y)

Definitions and sociological explanations of crime and delinquency. Social background of Canadian criminal law; the role of police, courts, prisons and other institutions of social control. [26L]

Prerequisite: SOC101Y, 211H

SOC308Y The Canadian Media

(Formerly SOC308H)

An analysis of both the institutional foundations of Canadian Media as well as several Canadian theorists/empiricists such as Innis, McLuhan and Grant. Historical development of Canadian media including book publishing, radio, film, television and computer technologies and the constraints on such industries will be discussed. The role of censorship boards, public and private broadcasting, bilingual and multilingual media may also be presented for analysis. [52L]

Prerequisite: SOC 101Y, 1.0 SOC course at the 200 level.

SOC309Y Sociology of Mass Communication

(Formerly SOC309H)

The course critically appraises some modern communications theorists - and dissects some old and new Canadian media institutions.

Special emphasis on the origin and destiny of innovation, governmental media organizations and their articulation with media institutions. [52L]

Prerequisite: SOC101Y, 1.0 SOC course at the 200 level

SOC311Y Sociology of Education

An analysis of the relationship between education and society in comparative perspective; the consequences of the internal structure of educational systems; and current controversies surrounding the function and structure of educational institutions. [52L]

Prerequisite: SOC101Y, 1.0 SOC course at 200 level

SOC312Y Population and Society

An analysis of population change and consequences from both global and Canadian perspectives. Trends in mortality, fertility, and migration are examined relative to their significance for growth, and their relation to social structure and social change. [52L]

Prerequisite: SOC101Y, 200Y/300Y

SOC314Y History of Social Theory

This course is a survey of the classical nineteenth-century tradition including the works of Auguste Comte, Karl Marx, Emile Durkheim, and Max Weber for example as well as of some twentieth-century schools of social theory. [52L]

Exclusion: SOC313Y

Prerequisite: SOC101Y and 1.0 SOC course at the 200 level.

SOC317Y Industrial Sociology

This course will survey the classical theories of industrial society as well as some of the more recent theories. A series of specific, pertinent issues will then be addressed. [52L]

Prerequisite: SOC101Y, 1.0 SOC course at the 200 level/ECO244Y

SOC319Y Gene Culture Coevolution

Some recent developments in social theory are examined with particular emphasis placed on three evolutionary processes -

1) biological evolution; 2) the "evolution" of behaviour in individual life cycles (individual learning); and 3) sociocultural transmission and evolution; and how these three processes are thought to interact with and affect each other to produce human social behaviour. [52L]

Prerequisite: ANT100Y/SOC101Y; BIO101Y/151Y/PSY100Y, 1.0 SOC course at the 200 level.

SOC321H Social Research Methods II: Techniques and Applications

Theoretical and applied problems in research design, sampling and measurement with emphasis on survey research. [26L]

Prerequisite: SOC101Y/BIO101Y/151Y/PSY100Y, SOC200Y

SOC322H Social Statistics II: Techniques and Applications

The understanding and application of multivariate analysis using computers in the survey research environment. [26L, 13P]

Prerequisite: SOC101Y, 300Y (SOC200Y highly recommended)

SOC324Y Politics and Society

The social basis of politics. Culture and social organization in their relation to power and its application. [52L]

Prerequisite: SOC101Y, 1.0 SOC course at 200 level

SOC329H Collective Behaviour

An analysis of non-conventional social action as seen in crowd and mass behaviour (panics, riots, demonstrations, crazes, etc.) involving a study of relationships between forms of collective action and the more conventional order, i.e., the relationship of collective behaviour to social action and control, stability and change. [26L]

Prerequisite: SOC101Y, 1.0 SOC course at the 200 level

SOC330H Race and Ethnic Relations

Social processes involved in minority relations in terms of race and ethnicity and their social, economic, and political consequences. [26L]

Prerequisite: SOC101Y, 1.0 SOC course at the 200 level

SOC334Y Communication and Children

Description and analysis of children's verbal and nonverbal communication networks, patterns and skills in the playgroup, in the classroom and with siblings, and with teachers, parents and some other adults. [52L]

Prerequisite: SOC101Y, 252Y

SOC335Y The Language of Conflict

The study of conflict and its enactment in various micro-social settings (family, educational, work-place, leisure, etc.) with special emphasis on identification, typification, strategies of participation in conflict as it really occurs in natural settings and on different social occasions. Theorizing on conflict as a social occurrence, based on material collected in real life situations. [52L]

Prerequisite: SOC101Y, 1.0 SOC course at the 200 level

SOC346Y Society, Organization, and the Individual

An analysis of formal organizations, e.g., hospitals, prisons, schools, business firms, government agencies, etc., focusing upon their structural characteristics, effects of social environments, and the influence upon their members. [52L]

Prerequisite: SOC101Y, 1.0 SOC course at the 200 level/ECO244Y

SOC365Y Gender Relations

The roles and statuses of women and men. Theoretical explanations for gender inequality (materialist, idealist, interactionist). Historical patterns of gender relations in family, work, and other social contexts. Contemporary changes in patterns of paid and domestic labour, parenting, sexuality, and state services. [52L]

Prerequisite: SOC101Y, 1.0 SOC course at the 200 level.

SOC384Y Communication and Ethics

This course examines the different ways that the flow and the content of information are controlled by various agencies, as well as the effects of censorship, or lack of it, on society. [52L]

Exclusion: SOC284Y

Prerequisite: SOC101Y, 252Y

SOC387H Qualitative Analysis

This course will investigate selected methodological writings, classical field studies and historical works. Themes such as the following will be dealt with: induction, deduction, formation of hypotheses, grounded theory, intersubjectivity, "verstehen." Appropriate historical and/or field work methodologies will also be utilized. [26L]

Prerequisite: SOC101Y, 1.0 SOC course at the 200 level (SOC200Y highly recommended)

SOC390Y/391H/392H Independent Research

To enrol, a student must submit a specific proposal and obtain the approval of both the instructor and the Faculty Advisor. Intended for Sociology Specialists and Majors who have completed ten university courses, i.e., are in third year, and who wish to explore in depth a particular subject area in Sociology. Students must have completed or be taking concurrently the required method and theory courses (SOC200Y/300Y, 314Y, or their equivalent), and have attained a B average in SOC courses. Students may take a maximum of two full course credits, or equivalent, of independent studies. Not more than one full course or equivalent may be taken with the same instructor.

NOTE: FOURTH-YEAR COURSES provide the opportunity for greater specialization in the Sociology subspecialty areas than is generally possible in the second or third years of the Sociology program. The actual content for "selected topics" courses will vary in focus from year to year. Students are advised to check with the Faculty Advisor/Sociology Office for more specific information re availability, course outlines and for instructions on balloting, which is required.

SOC410H Selected Topics in Theory and Research Methods: I [26S, 13P]

Prerequisite: SOC200Y/300Y for research methods topics, SOC314Y for sociological theory topics, at least one additional course beyond the introductory level in this subspecialty area.

SOC411H Selected Topics in Theory and Research Methods: II [26S, 13P]

Prerequisite: Same as for SOC410H

SOC420H Selected Topics in Interaction: I [26S, 13P]

Prerequisite: SOC200Y/300Y, 314Y, at least two additional courses beyond the introductory level in this subspecialty area.

SOC421H Selected Topics in Interaction: II [26S, 13P]

Prerequisite: Same as for SOC420H

SOC422H Selected Topics in Population, Societies, Urban Life or Inequality: I [26S, 13P]

Prerequisite: SOC200Y/300Y, 314Y, at least two additional courses beyond the introductory level in the designated subspecialty area.

SOC423H Selected Topics in Population, Societies, Urban Life or Inequality: II [26S, 13P]

Prerequisite: Same as for SOC422H

SOC431H Negotiation and Nonviolence

Violence is a means of reaching decisions in conflicts. Here alternative means are reviewed - e.g. mediation, brainstorming, strikes, petitions, spraypainting protests, fasting, or hugging trees to prevent their being felled. Negotiating practice and films on nonviolent sanctions—e.g., Gandhi, Martin Luther King, Jr. and Solidarnosc. [26L, 13T]

Prerequisite: SOC231Y/314Y

SOC490Y/491H/492H Independent Research

Open only to students who have completed fifteen university courses, i.e., are in fourth year, and have a B average in SOC courses. For other requirements and restrictions, see SOC390Y/391H/392H.

L.J. Brunner, B.A., Ph.D., M.A., Ph.D.
O. Fraser, B.Com., M.Sc.
A. Oyet, B.Sc., M.Sc., Ph.D.
J. Scott, B.Sc.

Discipline Representative and

Faculty Advisor: Prof. L.J. Brunner
Room 2092
(905) 828-3816

Statistical theory and methodology have applications in almost all areas of science, engineering, business, government and industry. The practising statistician is involved in such diverse projects as designing clinical trials to test a new drug, economic model-building to evaluate the costs of a guaranteed-income scheme, predicting the outcome of a national election, planning a survey of television viewing habits, and estimating the animal population in a popular hunting district. Statisticians have careers in consulting, government, business, industry and utility companies.

Today's consumer is bombarded with the results of so many quantitative studies using statistical methodology that it is necessary for him to know something about statistics in order to be properly critical. A basic knowledge of statistics should be an integral part of everyone's general education.

STA107H (I) Introduction to Probability and Modelling

A theoretical introduction to probability with emphasis on the construction of discrete probability models for applications. Topics covered include randomness and aspects of its representation, random variables, Venn diagrams, discrete probability distributions, expectation and variance, independence, conditional probability, the central limit theorem and applications to the analysis of algorithms and simulating systems such as queues. [26L, 13T]

Exclusion: STA242Y, 262Y, 257H, 352Y(G), ECO227Y

Prerequisite: OAC Calculus/MAT112Y

STA220H(I) Statistics

Acquaints students with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about populations on the basis of samples. [26L, 13T]

Exclusion: STA202H, 222Y(G), 242Y, 250H, 262Y, ECO220Y, 227Y, BIO360H, PSY201H, SOC300H

STA221H(I) Application of Statistics

A continuation of STA220H including an introduction to non-parametrics, analysis of variance and linear regression. [26L, 13T]
Exclusion: STA212H, 222Y(G), 242Y, 250H, 262Y, PSY202H, ECO220Y, 227Y, SOC300Y, BIO361H

Prerequisite: STA220H

STA250H Statistical Concepts

A survey of statistical methodology with emphasis placed on data analysis and applications. The topics covered include descriptive statistics, simulation, data collection and the design of experiments, tests of significance and confidence intervals, multiple regression, and the analysis of variance, the analysis of count data, model checking, and nonparametric models. A statistical computer package is used. [26L, 13T]

Exclusion: STA220H, 222Y(G), ECO220Y, BIO360H, SOC300Y, PSY201H

STA257H Probability with Statistical Applications

Development of probability models. Topics include probability measures, distribution functions, probability and density functions, random variables, conditional probability, expectation, convergence in distribution, the Weak and Strong Laws of Large Numbers, the Central Limit Theorem, some normal distribution theory and applications to the theory of statistics. [26L, 13T]

Exclusion: STA242Y, 255H(G), 262Y, 352Y(G), ECO227Y

Prerequisite: one previous Statistics course; MAT112Y/132Y/138Y

NOTE: MAT232H is strongly recommended.

STA301H Data Analysis

The extraction of information from real data, using both elementary and advanced methods of statistical inference. Students will use a major statistical software package such as SPSS or SAS to analyze several data sets. Statistical concepts are presented verbally rather than mathematically. Class meetings and assignments may overlap with those of PSY305H. [26L, 13T]

Exclusion: PSY305H

Prerequisite: STA221H/242Y/250H/262Y/ BIO361H/ECO220Y/227Y/PSY202H/ SOC300Y

§STA302H Regression Analysis

Simple and multiple linear regression, hypothesis testing and interval estimation, regression diagnostics and remedial measures, polynomial regression, qualitative independent variables, model building, detection of autocorrelation in time series data. Computer packages are used. [26L, 13T]

Exclusion: ECO327Y

Prerequisite: (STA221H/242Y/250H/262Y/ BIO361H/ECO220Y/227Y/PSY202H/ SOC300Y),(MAT112Y/132Y/138Y), (MAT222H/248Y)

STA312H/313H Topics in Statistics

Introduction to a topic of current interest in statistics. Content will vary from year to year. Computer packages are used. [26L, 13T]
Prerequisite: (STA257H/ECO227Y),(STA302/ ECO327Y)

Offered in alternate years.

STA313H offered in 1998-99.

STA322H Design of Sample Surveys

Designing samples for valid inferences about populations at reasonable cost: stratification, cluster/multistage sampling, unequal probability selection, ratio estimation, control of non-sampling errors, (e.g. non-response, sensitive questions, interview bias). [26L, 13T]

Prerequisite: STA221H/250H/BIO361H/ ECO220Y/227Y/PSY202H/SOC300Y

Offered in alternate years.

Not offered in 1998-99.

STA347H Probability and Applications

Probability spaces and random variables, conditional probability, characteristic functions, limit laws. Application of common probability distributions. Introduction to stochastic processes. [26L, 13T]

Prerequisite: (STA257H/ECO227Y)

Offered in alternate years.

Offered in 1998-99.

STA402H Experimental Design

Statistical issues in the design of experiments and the collection of data. Analysis of variance, randomization, factorial designs, blocking, confounding, higher-way tables. [26L, 13T]

Prerequisite: STA302H/ECO327H

Offered in alternate years.

Not offered in 1998-99.

STA412H Estimation and Testing

Basic theory of estimation and hypothesis testing. (This course emphasizes abstraction and rigour.) [26L, 13T]

Prerequisite: STA257H/ECO227Y

Offered in alternate years.

Offered in 1998-99.

STA437H Applied Multivariate Statistics

Practical techniques for the analysis of multivariate data. T^2 tests, tests of means, simultaneous confidence bounds, profile analysis. Multivariate analysis of variance, regression, correlation, growth curve models, data reduction, principal component analysis, discriminant analysis. Computer packages are used. [26L, 13T]

Prerequisite: (STA242Y/257H/262Y/ ECO227Y),(STA302H/ECO327Y)

Offered in alternate years.

Offered in 1998-99.

STA457H Time Series Analysis

Methods of modelling and forecasting with time series. Autocorrelation functions. Autoregressive, moving average, and ARIMA models. Comparison of time and frequency domain approaches. Computer packages are used. [26L, 13T]

Prerequisite: (STA242Y/257H/262Y/ ECO227Y),(STA302H/ECO327Y)

Offered in alternate years.

Not offered in 1998-99.

SURVEYING SCIENCE

SUR courses have been renumbered as GGR courses.

WDW260Y Organizational Behaviour

An introduction to the nature of organizations and the behaviour of people within organizations. Three major topic areas are covered:

- a) Individuals and Groups in Organizations: motivation, job satisfaction, leadership, group and intergroup behaviour;
- b) Organization Structure and Design: bureaucracy, classical theories of management, contingency theories of design;
- c) Improving Employee Performance and Organizational Effectiveness: communication, decision-making, performance appraisal, reward systems, work design, organizational change. Not recommended for students in the Bachelor of Commerce program.

Exclusion: MGT362H, 363H, WDW103Y

Prerequisite: Four courses including one 100 level course in ECO/HIS/PHI/PHL/POL/PSY/SOC

G. Allen, B.A., M.A., Ph.D.

J. Killoran, B.A., M.A.

M. Procter, B.A., M.A., Phil.M, Ph.D.

Discipline Representative and

Faculty Advisor: J. Killoran

Room K210, Kaneff Centre
(905) 828-3919

e-mail: jkilloran@credit.erin.utoronto.ca

The term "Professional Writing" refers to those documents currently written by business personnel, scientists, technologists, and documentation specialists. Among these forms are reports, proposals, journal articles, newsletters, manuals, memoranda and letters. During the course of the program, students are encouraged to explore the application of computer technology to the design of these documents.

Students from all disciplines of study can expand their career options by taking the Minor program in Professional Writing. (See Section 8).

Students completing the Minor program in Professional Writing must take 1.0 or 2.0 FCE from a list of Designated Writing Intensive (DWI) courses.

Designated Writing Intensive (DWI) courses are discipline based courses that focus attention on writing issues in the subject as well as the subject's content. DWI courses include attention to the particular issues and conventions of writing in the discipline. DWI courses include support for writing development. In some courses, students may choose whether or not they wish to designate a particular course as Writing Intensive.

The list of DWI courses will be determined according to criteria specified by the Academic Affairs Committee. Watch for the list in the *Erindale Registration and Timetable Information* booklet available in April.

WRI203H Expressive Writing

This course offers theory and practice in expressive prose, the most basic prose mode. Expressive writing emphasizes the writer's self-expression. Writers learn to select styles and forms appropriate to their personal meaning and purpose. The course covers writing and editing skills and communication techniques. Weekly assignments demonstrate how expressive elements operate in various prose forms: personal narratives, arguments, evaluations, interviews, reports. [26L, 13P]

WRI205H Organizational Communication

This course offers students the theory, strategies, and practice of communication within organizations and with the public. The course features frequent writing assignments. [26L, 13P]

WRI301H The Genres of Scientific and Technical Writing

Students will examine current theories of rhetoric for science and technology and explore how our culture uses language and written discourse to meet its goals of science and production. Readings will include writings by Bacon, Kuhn, Toulmin and Popper. A variety of technical documents will be examined and written. Students will develop analytical skills and improve their technical writing skills. [26L]

Prerequisite: WRI203H/205H

WRI303H Specialized Prose

Advanced theory and practice of specialized prose is examined. The distinctive features and standards associated with persuasive, expressive, scientific, technical and journalistic prose will be discussed. Students will be able to work in areas of special interest. [26L]

Prerequisite: WRI203H

WRI305H Professional Writing and Computer Communications

The course examines theories and practices of communication, composition, language, rhetoric, and design to guide students in analyzing and producing texts in electronic media. The course syllabus is available at <http://www.erin.utoronto.ca/academic/profwp/wri305h/index.htm>. [26L]

Prerequisite: WRI203H/205H/P.1.

WRI310H Social and Professional Languages

The course takes an analytical and critical perspective on English by approaching it through its social users--ethnic groups, genders, and social classes--and its contextualized usages--the languages of Canadian publishing, advertising, law, technical communications, academe and the electronic media. The course explores the functions of these languages and the roles of such forces as dictionaries, social change, and the new communications technologies in the evolution of these languages. [26L, 13P]

Prerequisite: 9.0 FCE

WRI315H Research Perspectives in Professional Writing

Current research perspectives and methodologies employed by scholars in the emerging field of Professional Writing are examined. Students will examine samples from a growing body of research. Each student will conduct original research using one of the research designs examined. [26L, 13P]

Prerequisite: WRI203H/205H

WRI390H Independent Studies

A research/writing project chosen by the student in consultation with a faculty member. The student will produce a substantial body of writing (30-60 pages) on professional writing and communications issues. The project supervisor will be chosen in consultation with the Program Coordinator. Open only to Professional Writing students with a B+ average in at least three Professional Writing courses.

Prerequisite: 10.0 or more FCE and permission of Program Coordinator

WRI391H Independent Studies

A research/writing project chosen by the student in consultation with a faculty member. The student will produce a substantial body of writing (30-60 pages) on professional writing and communications issues. The project supervisor will be chosen in consultation with the Program Coordinator. Open only to Professional Writing students with a B+ average in at least three Professional Writing courses.

Prerequisite: 10.0 or more FCE and permission of Program Coordinator

Policy on Access to Student Academic Records

1. Preamble

- (a) Academic records of students are ultimately the property of the University, and it is the responsibility of the University to establish overall University policy in this area. This policy establishes university-wide aims, objectives, criteria and procedures which shall apply to the academic records of students of academic divisions of the University.
- (b) The purpose of this policy is to combine consistency with flexibility in such a way as to ensure that:
 - (i) Students, alumni and former students are allowed as great a degree of access to their own academic records as is academically justifiable and administratively feasible.
 - (ii) A student's right to privacy in relation to his or her academic records is safeguarded as far as both internal university access and external public access are concerned.
 - (iii) There will be basic university-wide consistency in the kinds of information collected, recorded, filed and made available.
 - (iv) In keeping with the pluralistic nature of the University, academic divisions may retain some flexibility in the implementation and application of the policies established within this document.
- (c) Individual divisional regulations and procedures on access to student academic records, including the statement in the divisional calendar concerning such, shall be reported by the Provost to the Committee on Academic Policy and Programs. Any subsequent revisions shall also be reported.
- (d) This policy supersedes the 1979 access policy for undergraduate student records and the 1981 access policy for graduate student records.

2. For the purposes of this policy:

- (a) "student" means any person registered at the University for full-time or part-time study in a program that leads to a degree or post-secondary diploma or certificate of the University or in a program designated as a program of post-secondary study at the University by the Governing Council or other

University body having delegated authority. On the date of an enquiry or request relevant to this policy, persons who have been registered within a period of two calendar years shall be included in the provisions which relate to "students".

- (b) "alumnus or alumna" means any person who has received a degree or post-secondary diploma or certificate from the University, or any person who has completed one year of full-time studies or the equivalent thereof as determined by the Governing Council, towards such a degree, diploma or certificate, and is no longer registered at the University.
- (c) "former student" means any person who is not a student or an alumnus or alumna who has been registered at the University in a program as defined in Section 2 (a), and is no longer registered at the University.
- (d) "academic division" means a college, school, institute, faculty or other division of the University that has academic autonomy (i.e. the right to administer its own degrees, diplomas, certificates and other programs of study), subject only to the authority of the Vice-President and Provost, the President and the Governing Council.

3. Definition of the Official Student Academic Records

The official student academic record refers to information relating to a student's admission to and academic performance at this University.

The "official student academic record" shall contain:

- (a) (i) Personal information which is required in the administration of official student academic records such as name, student number, citizenship, social insurance number.
- (ii) Registration and enrolment information.
- (iii) Results for each course and academic period.
- (b) (i) Narrative evaluations of a student's academic performance subsequent to his or her admission, used to judge his or her progress through an academic program.
- (ii) Basis for a student's admission such as the application for admission and supporting documents.
- (iii) Results of petitions and appeals filed by a student.

- (iv) Medical information relevant to a student's academic performance which has been furnished at the request or with the consent of the student concerned.
- (v) Letters of reference which may or may not have been provided on the understanding that they shall be maintained in confidence.
- (vi) Personal and biographical information such as address and telephone number.

The "official student academic record" shall be maintained by the University. For each type of information, academic divisions shall designate which document, form or medium contains the official version and how official copies of such information will be identified.

4. Access to Official Student Academic Records

(a) Access by a student

- (i) A student may examine and have copies made of his or her official student academic record defined in Section 3 above, with the exception of those portions of the record which comprise letters of reference (Section 3(b)(v)) which have been provided or obtained on the expressed or implied understanding that they shall be maintained in confidence. A student may, however, be advised of the identity of the authors of any confidential letters contained in his or her official academic record.
- (ii) A student's request to examine a part of his or her official student academic record shall be made in writing and shall be complied with by the responsible authorities within a division. Such compliance shall occur within 30 days of receipt of the request, or within such lesser period as a division may determine.
- (iii) A student has the right to challenge the accuracy of his or her official student academic record with the exception of the material specifically excluded in Section 4(a)(i) and to have his or her official student academic record supplemented with comments so long as the sources of such comments are identified and the official student academic record remains securely within the custody of the academic division. Reference to such comments does not appear on reports such as transcripts or statements of results.

- (iv) It is assumed that all documents relating to petitions and appeals (Section 3(b)(iii)) and not provided on the understanding that they shall be maintained in confidence will be retained within a division, and when needed by a student, will be made freely available. In addition, The Statutory Powers Procedure Act, 1971 of Ontario requires that where the good character, propriety of conduct or competence of a party is in issue in any proceedings in a tribunal to which the Act applies (such as the Academic Appeals Board of the Governing Council), the party is entitled to be furnished prior to the hearing with "reasonable information" of any allegations with respect thereto.

(b) Access by Alumni and Former Students

- i) An alumnus or alumna or a former student may examine and have copies made of the portion of his or her official student academic record as defined in Section 3(a) above.
- (ii) A request from an alumnus or alumna or a former student to examine the portion of the official student academic record as defined in Section 3(a) shall be made in writing and shall be complied with by the responsible authorities within a division. Such compliance shall occur within 30 days of receipt of the request, or within such lesser period as a division may determine.
- (iii) An alumnus or alumna or a former student shall have the right to challenge the accuracy of his or her official student academic record only under such terms and conditions as the academic division may determine and publish in the divisional calendar.

(c) Access by University Staff and Members of Official University and Divisional Councils and Standing Committees

Members of the teaching and administrative staff of the University and members of official University and divisional councils and committees shall have access to relevant portions of an official student academic record for purposes related to the performance of their duties. A staff member requesting information must have a legitimate need to have the requested information for the effective functioning of the position or office.

Access to medical information as defined in Section 3(b)(iv) shall be granted to members of the teaching and administrative staff only with the prior expressed or implied consent of the student and, if applicable, in the case of a medical assessment, the originator (physician, etc.) of such.

The Department of Alumni and Community Relations shall have access to appropriate personal information on students and alumni for the purpose of maintaining contact with alumni.

(d) *Access by University Campus Organizations*

Recognized campus organizations in the University of Toronto shall have access to the information referred to in Section 3(a)(ii) as well as to the sessional address and telephone number of students named by that organization for the legitimate internal use of that organization. The Students' Administrative Council, Graduate Students' Union, Association for Part-time Undergraduate Students, and The Newspaper shall be entitled to publish and distribute within the University community a University-wide directory of students (including undergraduate, graduate, full-time and part-time) giving the sessional address and telephone number of students as long as there is a realistic provision for students to decline to consent to the disclosure of that information.

Names and addresses of students will also be provided to recognized campus organizations for the purpose of distributing information when all of the following conditions are met:

- The name and address information is not released to a third party.
- The name and address information is not used for commercial purposes.
- The organization proposes to distribute information which, in the opinion of the Assistant Vice-President (Planning) and University Registrar, the University would be willing to distribute if reimbursed by the organization.
- The information to be distributed is intended to provide information about the University and is not primarily advertisements for non-University organizations.
- The campus organization agrees to use the name and address information only for the specific purpose for which it was provided.

(e) *Access by Others*

- (i) By the act of registration, a student gives implicit consent for a minimal amount of information to be made freely available to all enquirers:
 - the academic division(s), degree program(s) and the session(s) in which a student is or has been registered,
 - degree(s) received and date(s) of convocation.
- (ii) Any other information contained in the official student academic record (including any comments generated under Section 4(a)(iii) but with the exception of the material specifically excluded in Section 4(a)(i), shall be released to other persons and agencies only with the student's prior expressed written consent, or on the presentation of a court order, or in accordance with the requirements of professional licensing or certification bodies, or the Ministry of Colleges and Universities for an annual enrolment audit, or otherwise under compulsion of law. Requests granted to any persons or agencies outside the University for access to a student's academic record shall be kept on file within a division. The release of the information concerning alumni and former students contained in the portions of the academic record as defined in Section 3(a)(i) shall also be governed by the above provisions.
- (iii) General statistical material drawn from academic records not disclosing the identities of students, alumni and former students may be released for research and informational purposes authorized by the University by the academic division maintaining these records.
- (iv) In the event that a student, alumnus or alumna or a former student is deceased, the executors of his or her estate shall have access to the official student academic record under the same terms as would the individual if he or she were still living.

(f) *Refusal of Access*

The University reserves the right to withhold access to the statements of results and transcripts of students, alumni and former students who have outstanding debts or obligations to the University in accordance with the Policy on Academic Sanctions for Students Who Have Outstanding University Obligations. The University may also choose not to release the official diploma to such persons nor to provide written or oral certifications of degree on their behalf.

5. Custody and Retention of Official Student Academic Records

- (a) Academic records of students are normally under the custodial responsibility of the academic division. Every academic division maintaining official student academic records shall draw up plans for the eventual disposition of their records in consultation with the University Archivist and in accordance with an approved records schedule which is in compliance with this policy.
- (b) Those portions of the official student academic record as defined in Section 3(a) shall be maintained permanently. Each academic division's records schedule shall specify the document, form or medium in which these records will be maintained.
- (c) Official student academic records preserved in the University Archives because of their archival value shall become open to researchers authorized by the University seventy-five years after a student has ceased to be registered.

6. The University's Responsibilities with Reference to the Official Academic Records of Students, Alumni and Former Students

- (a) Students shall be informed of University policy and divisional procedures with respect to their official student academic records.
- (b) Academic divisions, administrative divisions which handle student academic records and campus organizations shall develop administrative procedures in support of this policy.
- (c) Academic records shall be kept at all times under appropriate security.

Code of Behaviour on Academic Matters

The Governing Council of the University of Toronto has approved a *Code of Behaviour* which sets out clearly the standard of conduct in academic matters expected of members of the University community. The Code is enforced by the Provost and the Disciplinary Tribunal. Below are extracts from the Code, the full text of the Code is available from the Faculty Office and the Office of the Registrar.

B. ACADEMIC OFFENCES

The University and its members have a responsibility to ensure that a climate that might encourage, or conditions that might enable, cheating, misrepresentation or unfairness not be tolerated. To this end all must acknowledge that seeking credit or other advantages by fraud or misrepresentation, or seeking to disadvantage others by disruptive behaviour is unacceptable, as is any dishonesty or unfairness in dealing with the work or record of a student.

B.1.

- 1. It shall be an offence for a student knowingly:
 - (a) to forge or in any other way alter or falsify any document or evidence required by the University, or to utter, circulate or make use of any such forged, altered or falsified document, whether the record be in print or electronic form;
 - (b) to use or possess an unauthorized aid or aids or obtain unauthorized assistance in any academic examination or term test or in connection with any other form of academic work;
 - (c) to personate another person, or to have another person personate, at any academic examination or term test or in connection with any other form of academic work;
 - (d) to represent as one's own any idea or expression of an idea or work of another in any academic examination or term test or in connection with any other form of academic work, i.e., to commit plagiarism (for a more detailed account of plagiarism, see Appendix "A" in full text of the Code);
 - (e) to submit, without the knowledge and approval of the instructor to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or program of study in the University or elsewhere;
 - (f) to submit any academic work containing a purported statement of fact or reference to a source which has been concocted.

Code of Behaviour on Academic Matters

2. It shall be an offence for a faculty member knowingly:
 - (a) to approve any of the previously described offences;
 - (b) to evaluate an application for admission or transfer to a course or program of study by reference to any criterion that is not academically justified;
 - (c) to evaluate academic work by a student by reference to any criterion that does not relate to its merit, to the time within which it is to be submitted or to the manner in which it is to be performed.
3. It shall be an offence for a faculty member and student alike knowingly:
 - (a) to forge or in any other way alter or falsify any academic record, or to utter, circulate or make use of any such forged, altered or falsified record, whether the record be in print or electronic form;
 - (b) to engage in any form of cheating, academic dishonesty or misconduct, fraud or misrepresentation not herein otherwise described, in order to obtain academic credit or other academic advantage of any kind.
4. A graduate of the University may be charged with any of the above offences committed knowingly while he or she was an active student, when, in the opinion of the Provost, the offence, if detected, would have resulted in a sanction sufficiently severe that the degree would not have been granted at the time that it was.

B.II. Parties to Offences

1. (a) Every member is a party to an offence under this Code who knowingly:
 - (i) actually commits it;
 - (ii) does or omits to do anything for the purpose of aiding or assisting another member to commit the offence;
 - (iii) does or omits to do anything for the purpose of aiding or assisting any other person who, if that person were a member, would have committed the offence;
 - (iv) abets, counsels, procures, or conspires with another member to commit or be a party to an offence; or
 - (v) abets, counsels, procures, or conspires with any other person who, if that person were a member, would have committed or have been a party to the offence.
- (b) Every party to an offence under this Code is liable upon admission of the commission thereof, or upon conviction, as the case may be, to the sanctions applicable to that offence.

2. Every member who, having an intent to commit an offence under this Code, does or omits to do anything for the purpose of carrying out that intention (other than mere preparation to commit the offence) is guilty of an attempt to commit the offence and liable upon conviction to the same sanctions as if he or she had committed the offence.
3. When a group is found guilty of an offence under this Code, every officer, director or agent of the group, being a member of the University, who directed, authorized or participated in the commission of the offence is a party to and guilty of the offence and is liable upon conviction to the sanctions provided for the offence.

C. PROCEDURES IN CASES INVOLVING STUDENTS

At both divisional level and the level of the University Tribunal, the procedures for handling charges of academic offences involving students reflect the gravity with which the University views such offences. At the same time, these procedures and those which ensure students the right of appeal represent the University's commitment to fairness and the cause of justice.

C.I.(a) Divisional Procedures

Note: Where a student commits an offence, the faculty in which the student is registered has responsibility over the student in the matter. In the case of Scarborough and Erindale Colleges, the college is deemed to be the faculty.

Not proceedings of Tribunal

1. No hearing within the meaning of Section 2 of the *Statutory Powers Procedure Act* is required for the purposes of, or in connection with, any of the discussions, meetings and determinations referred to in Section C.I.(a), and such discussions, meetings and determinations are not proceedings of the Tribunal.

Instructor's duties

2. Where an instructor has reasonable grounds to believe that an academic offence has been committed by a student, the instructor shall so inform the student immediately after learning of the act or conduct complained of, giving reasons, and invite the student to discuss the matter. Nothing the student says in such a discussion may be used or receivable in evidence against the student.

3. If after such discussion, the instructor is satisfied that no academic offence has been committed, he or she shall so inform the student and no further action shall be taken in the matter by the instructor, unless fresh evidence comes to the attention of the instructor, in which case he or she may again proceed in accordance with subsection 2.

Instructor's report to the department chair

4. If after such discussion, the instructor believes that an academic offence has been committed by the student, or if the student fails or neglects to respond to the invitation for discussion, the instructor shall make a report of the matter to the department chair or through the department chair to the dean. (See also Section C.I.(b)1.)

Dean's or chair's meeting with student

5. When the dean or the department chair, as the case may be, has been so informed, he or she shall notify the student in writing accordingly, provide him or her with a copy of the Code and subsequently afford the student an opportunity for discussion of the matter. In the case of the dean being informed, the chair of the department and the instructor shall be invited by the dean to be present at the meeting with the student. The dean shall conduct the interview.

Dean's warning; admissions used at a hearing

6. Before proceeding with the meeting, the dean shall inform the student that he or she is entitled to seek advice, or to be accompanied by counsel at the meeting, before making, and is not obliged to make, any statement or admission, but shall warn that if he or she makes any statement or admission in the meeting, it may be used or receivable in evidence against the student in the hearing of any charge with respect to the offence or alleged offence in question. The dean shall also advise the student, without further comment or discussion, of the sanctions that may be imposed under Section C.I.(b), and that the dean is not obliged to impose a sanction but may instead request that the Provost lay a charge against the student. Where such advice and warning have been given, the statements and admissions, if any, made in such a meeting may be used or received in evidence against the student in any such hearing.

No further action

7. If the dean on the advice of the department chair and the instructor, or if the department chair, on the advice of the instructor, subsequently decides that no academic offence has been committed and that no further action in the matter is required, the student shall be so informed in writing and the student's work shall be accepted for normal evaluation or, if the student was prevented from withdrawing from the course by the withdrawal date, he or she shall be allowed to do so. Thereafter, the matter shall not be introduced into evidence at a Tribunal hearing for another offence.

Imposition of sanction

8. If the student admits the alleged offence, the dean or the department chair may either impose the sanction(s) that he or she considers appropriate under Section C.I.(b) or refer the matter to the dean or Provost, as the case may be, and in either event shall inform the student in writing accordingly. No further action in the matter shall be taken by the instructor, the department chair or the dean if the dean imposes a sanction.

Student may refer matter

9. If the student is dissatisfied with a sanction imposed by the department chair or the dean, as the case may be, the student may refer the matter to the dean or Provost, as the case may be, for consideration.

Referral of matter to Tribunal

10. If the student does not admit the alleged offence, the dean may, after consultation with the instructor and the department chair, request that the Provost lay a charge against the student. If the Provost agrees to lay a charge, the case shall then proceed to the Trial Division of the Tribunal.

Decanal procedures at trial

11. Normally, decanal procedures will not be examined in a hearing before the Tribunal. A failure to carry out the procedures referred to in this section, or any defect or irregularity in such procedures, shall not invalidate any subsequent proceedings of or before the Tribunal, unless the chair of the hearing considers that such failure, defect or irregularity resulted in a substantial wrong, detriment or prejudice to the accused. The chair will determine at the opening of the hearing whether there is going to be any objection to defect, failure or irregularity.

Code of Behaviour on Academic Matters

Student's standing pending disposition

12. **No degree, diploma or certificate of the University shall be conferred or awarded, nor shall a student be allowed to withdraw from a course from the time of the alleged offence until the final disposition of the accusation.**

However, a student shall be permitted to use University facilities while a decision is pending, unless there are valid reasons for the dean to bar him or her from a facility. When or at any time after an accusation has been reported to the dean, he or she may cause a notation to be recorded on the student's academic record and transcript, until the final disposition of the accusation, to indicate that the standing in a course and/or the student's status is under review. **A student upon whom a sanction has been imposed by the dean or the department chair under Section C.I.(b) or who has been convicted by the Tribunal shall not be allowed to withdraw from a course so as to avoid the sanction imposed.**

Recording cases; referral to records; reporting cases; advice on cases

13. A record of cases disposed of under Section C.I.(a) and of the sanctions imposed shall be kept in the academic unit concerned and may be referred to by the dean in connection with a decision to prosecute, or by the prosecution in making representations as to the sanction or sanctions to be imposed by the Tribunal, for any subsequent offence committed by the student. Information on such cases shall be available to other academic units upon request and such cases shall be reported by the dean to the Secretary of the Tribunal for use in the Provost's annual report to the Academic Board. The dean may contact the Secretary of the Tribunal for advice or for information on cases disposed of under Section C.II. hereof.

Analogy to faculty member

14. Where a proctor or invigilator, who is not a faculty member, has reason to believe that an academic offence has been committed by a student at an examination or test, the proctor or invigilator shall so inform the student's dean or department chair, as the case may be, who shall proceed as if he or she were an instructor, by analogy to the other provisions of this section.

Analogy to procedures

15. In the case of alleged offences not covered by the above and not involving the submission of academic work, such as those concerning forgery or uttering, and in cases involving cancellation, recall or suspension of a degree, diploma or certificate, the procedure shall be regulated by analogy to the other procedures of this section.

C.I.(b) Divisional Sanctions

Department chair's duties

- 1) In an assignment worth ten percent or less of the final grade, the department chair may handle the matter if:
- (i) the student admits guilt; and
 - (ii) the assignment of a penalty is limited to at most a mark of zero for the piece of work.

If the student does not admit guilt, or if the department chair chooses, the matter shall be brought before the dean.

Sanctions listed

2. One or more of the following sanctions may be imposed by the dean where a student admits to the commission of an alleged offence:
- (a) an oral and/or written reprimand;
 - (b) an oral and/or written reprimand and, with the permission of the instructor, the resubmission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences and where the student has committed no previous offence;
 - (c) assignment of a grade of zero or a failure for the piece of academic work in respect of which the offence was committed;
 - (d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;
 - (e) denial of privileges to use any facility of the University, including library and computer facilities;
 - (f) a monetary fine to cover the costs of replacing damaged property or misused supplies in respect of which the offence was committed;

- (g) assignment of a grade of zero or a failure for the course in respect of which the offence was committed;
- (h) suspension from attendance in a course or courses, a program, an academic division or unit, or the University for a period of not more than twelve months. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed.

Recording on academic transcript

3. The dean shall have the power to record any sanction imposed on the student's academic record and transcript for such length of time as he or she considers appropriate. However, the sanctions of suspension or a notation specifying academic misconduct as the reason for a grade of zero for a course shall normally be recorded for a period of five years.

Provost's guidelines

4. The Provost shall, from time to time, indicate appropriate sanctions for certain offences. These guidelines shall be sent for information to the Academic Board and attached to the Code as Appendix "C" in full text of the Code. (See "Code of Behaviour on Academic Matters," available in Registrarial Services.)

C.II.(b) Tribunal Sanctions

Sanctions listed

1. One or more of the following sanctions may be imposed by the Tribunal upon the conviction of any student:
 - (a) an oral and/or written reprimand;
 - (b) an oral and/or written reprimand and, with the permission of the instructor, the resubmission of the piece of academic work, in respect of which the offence was committed, for evaluation. Such a sanction shall be imposed only for minor offences and where the student has committed no previous offence;
 - (c) assignment of a grade of zero or a failure for the piece of academic work in respect of which the offence was committed;
 - (d) assignment of a penalty in the form of a reduction of the final grade in the course in respect of which the offence was committed;
 - (e) denial of privileges to use any facility of the University, including library and computer facilities;

- (f) a monetary fine to cover the costs of replacing damaged property or misused supplies in respect of which the offence was committed;
- (g) assignment of a grade of zero or a failure for any completed or uncompleted course or courses in respect of which any offence was committed;
- (h) suspension from attendance in a course or courses, a program, an academic unit or division, or the University for such a period of time up to five years as may be determined by the Tribunal. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed;

Expulsion

- i) recommendation of expulsion from the University. The Tribunal has power only to recommend that such a penalty be imposed. In any such case, the recommendation shall be made by the Tribunal to the President for a recommendation by him or her to the Governing Council. Expulsion shall mean that the student shall be denied any further registration at the University in any program and his or her academic record and transcript shall record this sanction permanently. Where a student has not completed a course or courses in respect of which an offence has not been committed, withdrawal from the course or courses without academic penalty shall be allowed. If a recommendation for expulsion is not adopted, the Governing Council shall have the power to impose such lesser penalty as it sees fit.

Cancellation of degree

- (j) (i) recommendation to Governing Council for cancellation, recall or suspension of one or more degrees, diplomas or certificates obtained by any graduate; or
- (ii) cancellation of academic standing or academic credits obtained by any former student who, while enrolled, committed any offence which if detected before the granting of the degree, diploma, certificate, standing or credits would, in the judgement of the Tribunal, have resulted in a conviction and the application of a sanction sufficiently severe that the degree, diploma, certificate, standing, credits or marks would not have been granted.

Code of Student Conduct

Recording sanction

2. The jury shall have the power to order that any sanction imposed by the Tribunal be recorded on the student's academic record and transcript for such length of time as the jury considers appropriate.

Publishing jury decision and sanction

3. The Tribunal may, if it considers appropriate, report any case to the Provost who may publish a notice of the decision of the Tribunal and the sanction or sanctions imposed in the University newspapers, with the name of the student withheld.

Summary of Code of Student Conduct

Non-academic offences are defined in the University's Code of Student Conduct (1995), the full text of which may be obtained from the Office of the Registrar. A summary of the Code is provided below.

A. Preface

1. The University of Toronto is a large community of teaching staff, administrative staff and students, involved in teaching, research, learning and other activities. Student members of the University are adherents to a division of the University for the period of their registration in the academic program to which they have been admitted and as such assume the responsibilities that such registration entails.
2. As an academic community, the University governs the activities of its members by standards such as those contained in the *Code of Behaviour on Academic Matters*, which provides definitions of offences that may be committed by student members and which are deemed to affect the academic integrity of the University's activities.
3. The University sponsors, encourages or tolerates many non-academic activities of its members, both on its campuses and away from them. These activities, although generally separate from the defined requirements of students' academic programs, are a valuable and important part of the life of the University and of its students.
4. The University does not stand *in loco parentis* to its student members, that is, it has no general responsibility for the moral and social behaviour of its students, as if they were its wards. In the exercise of its disciplinary authority and responsibility, the University treats students as free to organize their own personal lives, behaviour and associations subject only to the law and to University regulations that are necessary to protect the integrity and safety of University activities, the peaceful and safe enjoyment of University housing by residents and neighbours, or the freedom of members of the University to participate reasonably in the programs of the University and in activities in or on the University's premises. Strict regulation of such activities by the University of Toronto is otherwise neither necessary nor appropriate.
5. University members are not, as such, immune from the criminal and civil laws of the wider political units to which they belong. Provisions for non-academic discipline should not attempt to shelter students from their civic responsibilities nor add unnecessarily to these responsibilities. Conduct that constitutes a breach of the Criminal Code or other statute, or that would give rise to a civil claim or action, should ordinarily be dealt with by the appropriate criminal or civil court. In cases, however, in which criminal or civil proceedings have not been taken or would not adequately protect the University's interests and responsibilities as defined below, proceedings may be brought under a discipline code of the University, but only in cases where such internal proceedings are appropriate in the circumstances.
6. The University must define standards of student behaviour and make provisions for student discipline with respect to conduct that jeopardizes the good order and proper functioning of the academic and non-academic programs and activities of the University or its divisions, that endangers the health, safety, rights or property of its members or visitors, or that adversely affects the property of the University or bodies related to it, where such conduct is not, for the University's defined purposes, adequately regulated by civil and criminal law.
7. Nothing in this Code shall be construed to prohibit peaceful assemblies and demonstrations, lawful picketing, or to inhibit freedom of speech as defined in the University.

8. In this Code, the word "premises" includes lands, buildings and grounds.
9. In this Code, "student" means a member of the University
 - (i) engaged in any academic work which leads to the recording and/or issue of a mark, grade or statement of performance by the appropriate authority in the University or another institution; and/or
 - (ii) registered in any academic course which entitles the member to the use of a University library, library materials, library resources, computer facility or dataset; and or
 - (iii) who is a post-doctoral fellow.
10. In the following, the words "University of Toronto" refer to the University of Toronto and include any institutions federated or affiliated with it, where such inclusion has been agreed upon by the University and the federated or affiliated institution, with respect to the premises, facilities, equipment, services, activities, students and other members of the federated or affiliated institution.

NOTE: The University of Toronto has agreed that, when the premises, facilities, equipment, services or activities of the University of Toronto are referred to in this Code, the premises, facilities, equipment, services and activities of the University of St. Michael's College, Trinity College and Victoria University are included.

11. In this Code, where an offence is described as depending on "knowing", the offence shall likewise be deemed to have been committed if the person ought reasonably to have known.
12. This Code is concerned with conduct that the University considers unacceptable. In the case of student members of the University, the procedures and sanctions described herein shall apply. In the case of other members of the University, such conduct is to be dealt with in accordance with the established policy, procedures and agreements that apply to the members.

B. Offences

The following offences constitute conduct that shall be deemed to be offences under this Code, when committed by a student of the University of Toronto, provided that such conduct

- (i) has not been dealt with as failure to meet standards of professional conduct as required by a college, faculty or school; and
- (ii) is not specifically assigned to the jurisdiction of the University Tribunal, as in the case of offences described in the Code of Behaviour on Academic Matters, or to another disciplinary body within the University of Toronto, as in the case of sexual harassment as described in the *Policy and Procedures: Sexual Harassment*; (Ontario Human Rights Code) and
- (iii) except as otherwise provided herein, occurs on premises of the University of Toronto or elsewhere in the course of activities sponsored by the University of Toronto or by any of its divisions.

1. Offences against persons

- (a) No person shall assault another person sexually or threaten any other person with sexual assault.
- (b) No person shall otherwise assault another person, threaten any other person with bodily harm, or knowingly cause any other person to fear bodily harm.
- (c) No person shall knowingly create a condition that unnecessarily endangers the health or safety of other persons.
- (d) No person shall threaten any other person with damage to such person's property, or knowingly cause any other person to fear damage to her or his property.
- (e) No person shall engage in a course of vexatious conduct that is directed at one or more specific individuals, and

that is based on the race, ancestry, place of origin, colour, ethnic origin, citizenship, creed, age, marital status,

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family status, handicap, receipt of public assistance or record of offences of that individual or those individuals, and

that is known to be unwelcome, and

that exceeds the bounds of freedom of expression or academic freedom as these are understood in University policies and accepted practices, including but not restricted to, those explicitly adopted.

Note: Terms in this section are to be understood as they are defined or used in the *Ontario Human Rights Code*.

- (f) (i) No person shall, by engaging in the conduct described in subsection (ii) below,

whether on the premises of the University or away from the premises of the University,

cause another person or persons to fear for their safety or the safety of another person known to them while on the premises of the University of Toronto or in the course of activities sponsored by the University of Toronto or by any of its divisions, or cause another person or persons to be impeded in exercising the freedom to participate reasonably in the programs of the University and in activities in or on the University's premises,

knowing that their conduct will cause such fear, or recklessly as to whether their conduct causes such fear.

- (ii) The conduct mentioned in subsection (i) consists of

- (a) repeatedly following from place to place the other person or anyone known to them;
- (b) repeatedly and persistently communicating with, either directly or indirectly, the other person or anyone known to them;
- (c) besetting or repeatedly watching the dwelling-house or place where the other person, or anyone known to them, resides, works, carries on business or happens to be; or

- (d) engaging in threatening conduct directed at the other person or any member of the family, friends or colleagues of the other person.

2. Disruption

No person shall cause by action, threat or otherwise, a disturbance that the member knows obstructs any activity organized by the University of Toronto or by any of its divisions, or the right of another member or members to carry on their legitimate activities, to speak or to associate with others.

For example, peaceful picketing or other activity outside a class or meeting that does not substantially interfere with the communication inside, or impede access to the meeting, is an acceptable expression of dissent. Silent or symbolic protest is not to be considered disruption under this Code. Noise that obstructs the conduct of a meeting or forcible blocking of access to an activity constitutes disruption.

3. Offences involving property

- (a) No person shall knowingly take, destroy or damage premises of the University of Toronto.
- (b) No person shall knowingly take, destroy or damage any physical property that is not her or his own.
- (c) No person shall knowingly destroy or damage information or intellectual property belonging to the University of Toronto or to any of its members.
- (d) No person, in any manner whatsoever, shall knowingly deface the inside or outside of any building of the University of Toronto.
- (e) No person, knowing the effects or property to have been appropriated without authorization, shall possess effects or property of the University of Toronto.
- (f) No person, knowing the effects or property to have been appropriated without authorization, shall possess any property that is not her or his own.
- (g) No person shall knowingly create a condition that unnecessarily endangers or threatens destruction of the property of the University of Toronto or of any of its members.

4. Unauthorized Entry or Presence

No person shall, contrary to the expressed instruction of a person or persons authorized to give such instruction, or with intent to damage or destroy the premises of the University of Toronto or damage, destroy or steal any property on the premises of the University of Toronto that is not her or his own, or without just cause knowingly enter or remain in or on any such premises.

5. Unauthorized use of University facilities, equipment or services

(a) No person shall knowingly use any facility, equipment or service of the University of Toronto contrary to the expressed instruction of a person or persons authorized to give such instruction, or without just cause.

(b) No person shall knowingly gain access to or use any University computing or internal or external communications facility to which legitimate authorization has not been granted. No person shall use any such facility for any commercial, disruptive or unauthorized purpose.

Appropriate uses for University connections to external networks are described, for example, in the policy document "Appropriate Use Policy for the ONet Network".

(c) No person shall knowingly mutilate, misplace, misfile, or render inoperable any stored information such as books, film, data files or programs from a library, computer or other information storage, processing or retrieval system.

6. False charges

No person shall knowingly or maliciously bring a false charge against any member of the University of Toronto under this Code.

7. Aiding in the Commission of an Offence

No person shall counsel, procure, conspire with or aid a person in the commission of an offence defined in this Code.

8. Refusal to comply with sanctions

No person found guilty of an offence under this Code shall refuse to comply with a sanction or sanctions imposed under the procedures of this Code.

9. Unauthorized possession or use of firearms or ammunition

No person other than a peace officer or a member of the Canadian Forces acting in the course of duty shall possess or use any firearm or ammunition on the premises of the University of Toronto without the permission of the officer of the University having authority to grant such permission.

C. Hearings Procedures

Below, is a summary of the hearing procedures.

1. Whenever possible and appropriate, informal resolution and mediation shall be used to resolve issues of individual behaviour before resort is made to formal disciplinary procedures.

2. An Investigating Officer, who may be a student, shall be appointed for a term of up to three years by the principal, dean or director (hereinafter called "head") of each faculty, college or school in which students are registered (hereinafter called "division"), after consultation with the elected student leader or leaders of the division, to investigate complaints made against student members of that division. Investigating Officers shall hold office until their successors are appointed.

3. A Hearing Officer, who may be a student, shall be appointed for a term of up to three years by the council of each division to decide on complaints under this Code made against student members of that division. Hearing Officers shall hold office until their successors are appointed.

4. If the Investigating Officer is, for any reason, unable to conduct an investigation, then the head of the division shall appoint another person as Investigating Officer for the particular case. If the Hearing Officer is, for any reason, unable to chair the hearing of any case, then the senior chair of the University Tribunal shall appoint another person as Hearing Officer for the particular case.

5. Where the head of the division has reason to believe that a non-academic offence as defined in this Code may have been committed by a student member or members of the division, the Investigating Officer will conduct an investigation into the case. After having completed the investigation, the Investigating Officer shall report on the investigation to the head of the division. If the head of the division concludes, on the basis of this report, that the student or students may have committed an offence under the Code of Student Conduct, the head of the division shall have the discretion to request that a hearing take place to determine whether the student or students have committed the offence alleged.
6. The hearing will be chaired by a Hearing Officer. The case will be presented by the Investigating Officer, who may be assisted and represented by legal counsel. If the right to a hearing is waived, or after a hearing, the Hearing Officer will rule on whether the student or students have committed the offence alleged and may impose one or more sanctions as listed below. The accused student or students may be assisted and represented by another person, who may be legal counsel.
7. Appeals against decisions of bodies acting under authority from the council of a division to hear cases arising out of residence codes of behaviour may be made to the Hearing Officer of the division, where provision therefor has been made by the council of the division.
8. Appeals against the decision of the Hearing Officer may be made to the Discipline Appeals Board of the Governing Council.
9. Where the head of a division has reason to believe that a non-academic offence may have been committed by a group of students including students from that division and from another division or divisions, the head may consult with the head of the other division or divisions involved and may then agree that some or all of the cases will be investigated jointly by the Investigating Officers of the divisions of the students involved and that some or all of the cases will be heard together by the Hearing Officer

of one of the divisions agreed upon by the heads and presented by one of the Investigating Officers agreed upon by the heads.

D. Sanctions

The following sanctions or combinations of them may be imposed upon students found guilty of committing an offence under this Code.

In addition, students found to have committed an offence may be placed on conduct probation for a period not to exceed one year, with the provision that one or more of the following sanctions will be applied if the conduct probation is violated.

1. Formal written reprimand.
2. Order for restitution, rectification or the payment of damages.
3. A fine or bond for good behaviour not to exceed \$100.
4. Requirement of public service work not to exceed 25 hours.
5. Denial of access to specified services, activities or facilities of the University for a period of up to one year.

The following two sanctions, which would directly affect a student's registration in a program, may be imposed only where it has been determined that the offence committed is of such a serious nature that the student's continued registration threatens the academic function of the University of Toronto or any of its divisions or the ability of other students to continue their programs of study.

6. Suspension from registration in any course program of a division or divisions for a period of up to one year.
7. Recommendation for expulsion from the University.

University Grading Practices Policy

University Grading Practices Policy

The purpose of the University Grading Practices Policy is to ensure:

- (a) that grading practices throughout the University reflect appropriate academic standards;
- (b) that the evaluation of student performance is made in a fair and objective manner against these academic standards;
- (c) that grade scales, while remaining suited to the particular circumstances of every division, are compatible with each other;
- (d) that the academic standing of every student can be accurately assessed even when courses have been taken in different divisions of the University and evaluated according to different grade scales.

Application of Policy

The Policy applies to all individuals and committees taking part in the evaluation of student performance in degree, diploma, and certificate credit courses (hereafter referred to as courses), excluding courses in the School of Graduate Studies.

Amendment to Policy

Amendments to the Policy shall be recommended to the Academic Board.

Changes to the divisional regulations on grading practices shall be forwarded to the Committee on Academic Policy and Programs.

Distribution of Policy

A copy of the Grading Practices Policy as well as the description of the grade scale used in a division and the substance of divisional regulations indicated in Part II of this Policy shall be published in the Calendar of the division. Similarly a copy shall be given to all students upon initial registration and to all instructors and others, including teaching assistants, involved in the evaluation of student performance.

The Policy is in three parts: Part I deals with grades, Part II outlines grading procedures to be adhered to in divisional regulations adopted as part of this Policy, and Part III is an administrative appendix available upon request from the Office of the Vice-President and Provost.

PART I: GRADES

Meaning of Grades

Grades are a measure of the performance of a student in individual courses. Each student shall be judged on the basis of how well he or she has command of the course materials.

- 1.1 A grade assigned in a course is not an assessment of standing within a program of studies. To determine the requirements for credit and standing in a program of studies, the academic regulations of the division in which the program is offered should be consulted.
- 1.2 Grades for each course shall be assigned with references to the following meanings (which may be expanded in the divisional regulations under Part II):
 - Excellent
 - Good
 - Adequate
 - Marginal
 - Inadequate
 - Wholly Inadequate.

Grade Scales

- 1.3 Once a judgment on the performance of the student has been made, the following grade scales may be used in accordance with divisional practice:
 - (a) a compatible letter grade scale,
 - (b) the numerical scale of marks; and/or
 - (c) the scales Honours/Pass/Fail and Credit/No Credit.

Grades vs. Scores

- 1.4 Grades should always be based on the approved grade scales. However, students may find that on any one evaluation they may receive a numerical or letter mark that reflects the score achieved on the test or essay. The cumulative scores may not be directly identified with the final grade. Grades are final only after review by the divisional review committee described below.
- 1.5 A table of correspondence and a translation table are defined in the Appendix, (See Grading Scheme, Section 7 of this Calendar) for each of the letter grade scales referred to in 1.3(a) in order to allow the conversion, when necessary, of a grade assigned from one scale to the corresponding grade in another. It should be noted that these tables are not to be used to translate a score to a grade directly.

Grade Reporting

- 1.6 Only one *letter* scale, as referred to in 1.3(a) may be used in a division for assigning grades, but the numerical scale and the H/P/FL and CR/NCR scales, as referred to in 1.3(b) and (c) respectively, may also be used. The grades assigned in a course, however, must all be from the same scale.
- 1.7 Grades in each course shall be assigned according to the practice of the division offering the course.

University Grading Practices Policy

Grades in each course shall be reported according to the practice of the division administering the program in which the student is registered (the reporting division).

- (a) Grades shall be reported as assigned when the division offering the course is also the reporting division, when the offering and reporting divisions use the same grade scale, and when the grades are assigned from the H/P/FL or CR/NCR scales.
 - (b) In all other cases, grades shall be reported as converted to the scale used by the reporting division, and the conversion shall be made according to the tables of correspondence and translation tables defined in the Appendix. (See Grading Scheme, Section 7 of this Calendar).
 - (c) With the exception of H/P/FL and CR/NCR scales, two different letter grade scales may not be used on the same transcript.
 - (d) A grade not reported in the form originally assigned by the offering division must on request be made available to the student in that form by the reporting division.
- 1.8 All non-grade symbols used in reporting course results must correspond to the University-wide standard. A list of the currently approved symbols and their meanings is given in the Appendix A.2. (See Grading Scheme, Section 7 of this Calendar).
- 1.9 The information in grade reports and transcripts must be communicated to the user, whether within or outside the University, in a clear and meaningful way. To that end, transcripts issued by every division of the University must indicate the relationship between the divisional grade scale, the grade meanings, the basic letter grade scale, whether refined or unrefined by plus and minus signs, and the scale or numerical marks as well as the translation table. A list of non-grade symbols and meanings shall also be included in the transcript.

PART II: GRADING PROCEDURES

Approval of Grades

Grades shall be recommended by the instructor to the chair or division head. The grades shall then be reviewed and approved following the divisional review procedure. Grades shall not be reported or released to students as official until the divisional review procedure has been carried out. The divisional review constitutes final approval of grades except when grades are changed on appeal.

II.1 Divisional Review Committee

In each division, a committee chaired by the divisional head or a designate, and where appropriate, an additional committee structure, with the chairs (or their designates) of departments or other academic units of divisions serving as chairs, shall:

- (a) administer the implementation of the University Grading Practices Policy at the divisional level and oversee the general consistency of grading procedures with the division;
- (b) formulate, approve, and administer the University's specific regulations concerning the grade scale or scales to be used, the assignment of non-grade symbols for course work, classroom procedures and approved methods of evaluation;
- (c) review, adjust and approve course grades recommended by instructors. The grades recommended for any individual student in the professional faculties may be adjusted according to his or her performance in the course or program as determined by the committee. *The divisional committee has the final responsibility for assigning the official course grade.*

II.2 Classroom Procedures

To ensure that the method of evaluation in every course reflects appropriate academic standards and fairness to students, divisional regulations governing classroom procedures must be consistent with the practices below.

- (a) As early as possible in each course (and no later than the division's last date for course enrolment) the instructor shall make available to the class, and shall file with the division or department, the methods by which student performance shall be evaluated. This should include whether the methods of evaluation shall be essays, tests, examinations, etc., the relative weight of these methods in relation to the overall score, and the timing of each major evaluation.
- (b) After the methods of evaluation have been made known, the instructor may not change them or their relative weight without the consent of at least a simple majority of the students enrolled in the course. Any changes shall be reported to the division or the department.

- (c) Student performance in a course shall be assessed on more than one occasion. No one essay, test, examination, etc. should have a value of more than 80% of the grade. Criteria for exemption may be determined by the division.
- (d) In courses that meet regularly as a class there shall be an examination (or examinations) conducted formally under divisional auspices and worth (alone or in the aggregate) at least one-third of the final grade. Criteria for exemption may be determined by the division. The relative value of each part of an examination shall be indicated to the student. In the case of a written examination, the value shall be indicated on the examination paper.
- (e) Commentary on assessed term work and time for discussion of it shall be made available to students.
- (f) At least one piece of term work which is a part of the evaluation of a student performance, whether essay, lab report, review, etc., shall be returned to the student prior to the last date for withdrawal from the course without academic penalty.
- (g) Grades shall be recommended by the instructor in reference to the approved grade scales on the basis of each student's overall performance.

In formulating their own regulations divisions may add to items (a) to (g) and may adopt fuller or more specific provisions, for example in place of such terms as "a simple majority" (b), "one-third of the final grade" (d), or in particularizing the evaluation methods referred to in (a) and (b).

II.3 Procedures in the Event of Disruptions

Principles

The following principles shall apply in the event of disruption of the academic program:

- (i) The academic integrity of academic programs must be honoured; and
- (ii) Students must be treated in a fair manner recognizing their freedom of choice to attend class or not without penalty.

Procedures

- (a) The Vice-President and Provost, or the Academic Board, shall declare when a disruption of the academic program has occurred. The Provost shall take steps to inform the University community at large of the changes to be implemented, and will report to the Committee on Academic Policy and Programs regarding the implementation of the procedures and changes to the status of the academic programs.
- (b) Individual instructors or multi-section coordinators responsible for courses that are disrupted shall determine, as the disruption proceeds, whether any changes to classroom procedures are needed to complete the course.
- (c) Changes to the classroom procedures should, where possible, first be discussed with students prior to the class in which a vote of the students present on the proposed changes is to be taken. Changes agreed upon by consensus should be forwarded to the department or division with a report on the attendance at the class where the vote was taken.
- (d) Where consensus on changes has not been arrived at, or where a vote is not feasible, the instructor, after the class discussion, will provide the division head or chair of the department in multi-departmental faculties, with his or her recommendation, along with the results of any classroom votes. The chair or division head shall then make a decision.
- (e) Where classes are not able to convene, the instructor, with the prior approval of the chair in multi-departmental faculties or the division head, shall make changes deemed necessary to the classroom procedures. In the absence of the instructor such changes will be made by the divisional head and require the approval of the Provost. Where courses are to be cancelled, approval of the divisional council is required. If the divisional council cannot meet, approval of the division head, or in the absence of the division head, the approval of the Provost, is required.

- (f) Students must be informed of changes to classroom procedures. This may be done by circulating the changes in writing to the class, posting in the departmental and faculty offices, reporting to the divisional council, as well as listing in the campus press. Should classes resume students must be informed, at class, of any changes made during the disruption.
- (g) Where changes to the classroom procedures are made, students who do not wish to complete the course under the revised procedures may withdraw without academic penalty. This must be done prior to the last day of classes.
- (h) Where students have not attended classes that are meeting, they nonetheless remain responsible for the course work and meeting course requirements. However, where possible, reasonable extension of deadlines for the course requirements, or provision of make-up tests shall be made and reasonable alternative access to material covered should be provided.
- (i) A student who feels, owing to his or her special circumstances, that changes to the classroom procedure have unreasonably affected his or her grade may appeal the grade following the procedures as set out in each division.

II.4 Assessment in Clinical and Field Settings

Divisions may make reasonable exemptions to the classroom procedures described above in circumstances such as field or clinical courses where adherence to these procedures is not possible. Nevertheless, it is obligatory that the assessment of the performance of students in clinical or field settings should be fair, humane, valid, reliable and in accordance with the principles enunciated in the University Grading Practices Policy. Accordingly, where a student's performance in a clinical or field setting is to be assessed for credit, the evaluation must encompass as a minimum:

- (a) a formal statement describing the evaluation process, including the criteria to be used in assessing the performance of students and the appeal mechanisms available. This statement should be available to all students before or at the beginning of the clinical or field experience;
- (b) a mid-way performance evaluation with feedback to the student;

- (c) written documentation of the final assessment.

In addition, for such clinical and field experiences, divisions must ensure that:

- (d) clinical and field assessors are fully informed regarding University, divisional and course policies concerning evaluation procedures, including the specific assessment procedures to be applied in any particular field or clinical setting.

Any exception from the above would require a divisional request with explanation for approval by the Governing Council.

II.5 Grade Review and Approval Process

The following principles and procedures shall govern the grade review and approval process.

- (a) The distribution of grades in any course shall not be predetermined by any system of quotas that specifies the number or percentage of grades allowable at any grade level.
- (b) However, a division may provide broad limits to instructors setting out a reasonable distribution of grades in the division or department. Such broad limits shall recognize that considerable variance in class grades is not unusual. The division may request an explanation of any grades for a course that exceed the limits and hence appear not to be based on the approved grade scales or otherwise appear anomalous in reference to the Policy. It is understood that this section shall only be used when the class size is thirty students or greater. Each division shall make known in the divisional Calendar the existence of any such limits be included.

NOTE: The Faculty of Arts and Science has no intention of requiring course results to conform to a prescribed pattern. Courses with under 30 students, and 400 level courses, are subject to no scrutiny by the Faculty. In the case of larger courses, experience has shown that the results in an average class of reasonable size will normally fall somewhere within the following broad guidelines:

1. Grade "A" between 5% and 25%.
2. Grades "A" and "B" combined: not over 75%.
3. Grades "E" and "F" combined: not over 20%.

- (c) The criterion that the Divisional Review Committee shall employ in its evaluation is whether the instructor has followed the University Grading Practices Policy. The Review Committee shall not normally adjust grades unless the consequences of allowing the grades to stand would be injurious to the standards of the University, or the class in general.
- (d) Membership on the Divisional Review Committee may include students but should not include members of the divisional appeals committee(s).
- (e) Where grades have been adjusted by a divisional committee, the students as well as the instructor shall be informed. On request, the students or the instructor shall be given the reason for the adjustment of grades, a description of the methodology used to adjust the grades, and a description of the divisional appeal process.
- (f) Where a departmental review committee changes course grades, the faculty office shall be so informed. Having done so, the faculty office shall relay this information, upon request, to the students or the instructor with a description as to the reason for the change and the methodology used.
- (g) Past statistical data, including drop-out rates, mean arithmetic average, etc. should be provided to the Divisional Review Committee as background information where available. The committee will not use this information exclusively to judge whether a specific grades distribution is anomalous. Rather, the information should provide part of the basis for an overall review of grades in a division.
- (h) Where class grades have been changed, or when the Divisional Review Committee had reservations about the grades, the issue will be taken up with the instructor by the division or department head, with a view to ensuring that the Grading practices Policy is followed in future.

II.6 Student Access to Examination Papers

- (a) All divisions should provide access to copies of the previous year's final examination papers and other years' papers where feasible. Exemptions may be granted by an appropriate committee of the division or department.
- (b) All divisions should provide students with the opportunity within a reasonable time to review their examination paper where feasible. A recovery fee should be set to cover administrative costs including photocopying.
- (c) All divisions should provide, in addition to the customary re-reading of papers and the re-checking of marks, the opportunity for students to petition for the re-reading of their examination where feasible. A cost recovery fee should be set and returned where appropriate.

II.7 Conflict of Interest

Where the instructor or a student has a conflict of interest, or is in a situation where a fair and objective assessment may not be possible, this should be disclosed to the chair or division head who shall take steps to ensure fairness and objectivity.

Appeal Procedure

Every division shall establish divisional appeal procedures. Students may appeal grades according to the procedures established for that purpose in the division. The appeal may be made whether marks have been altered by the review process or not. These procedures shall be outlined in the divisional Calendar, and available upon request at the faculty or registrar's office.

The Calendar

The Erindale Calendar serves as a counselling guide and statement of the most important rules and regulations for students seeking to obtain the degrees of Bachelor of Arts, Bachelor of Science or Bachelor of Commerce from the University of Toronto through Erindale College.

Each department offering courses at Erindale has included a list of its academic staff, an introductory essay, and details of the programs which it sponsors. When selecting courses, the student should read these essays, as well as the description of courses offered, and seek advice from the College Registrar and from Departmental academic counsellors. Particular attention should be paid to exclusions, prerequisites and corequisites. Students who wish to have such requirements waived, or who have equivalent qualifications, must consult the department offering the course.

All students should refer to the list of Sessional Dates so as to avoid incurring academic or financial penalties and are urged to read the sections entitled Academic Status and Degree Requirements as these state concisely what is required in order to qualify for the degree.

Calendar Supplements

Two supplements to the Calendar are issued: one in April and the other in September. They contain specific instructions for registration and enrolment, and detailed timetable and scheduling information for the winter session. The information they contain is just as important as that in this Calendar.

Fees Information Booklet

This publication, which contains information on academic and incidental fees, payment procedures and refunds, is sent to each student before registration.

Summer Session Information

The list of course offerings for Summer Session is available in February.

Home Page on the World Wide Web

This electronic publication of Erindale provides frequently updated information about the University of Toronto at Mississauga, its academic program, the Library, College Events, Research and Expertise, Alumni Information, Student Organizations and other such information. Visit the site regularly at <http://www.erin.utoronto.ca>

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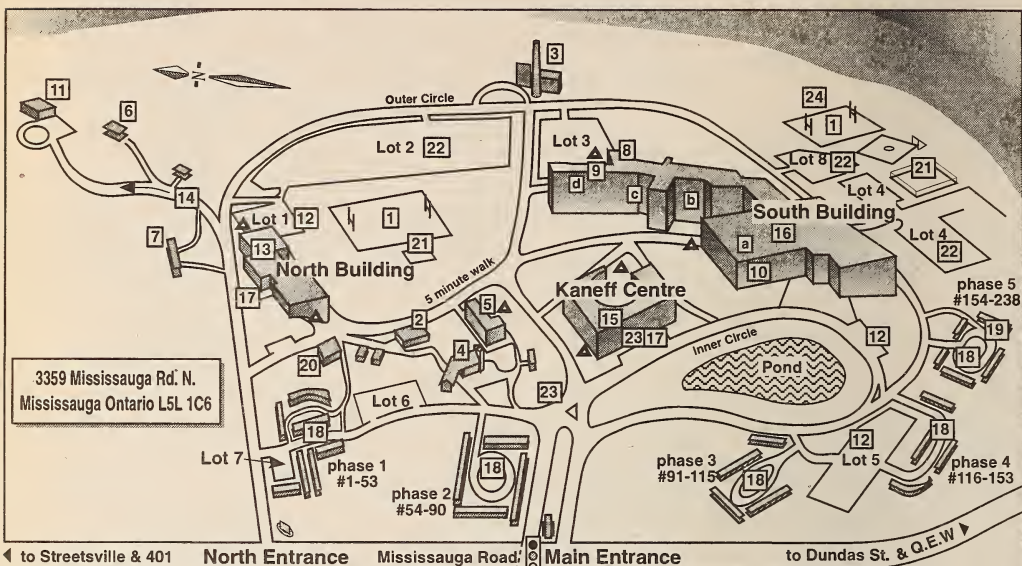
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UNIVERSITY OF TORONTO AT MISSISSAUGA

ERINDALE COLLEGE



1. Athletic Fields
2. Blind Duck (Pub)
3. Central Utilities Plant
4. **Colman Place:**
Residence Office
5. **Crossroads Building:**
rooms=2 digit #'s. (e.g. 10)
CFRE, Radio Erindale
ECSU
The Medium
Geology Lab
6. Geomorphology Lab
7. Greenhouse
8. J. Tuzo Wilson Research
9. Wing
10. Library
11. Lislehurst
12. Metered Parking
(30 minute parking)
Additional metered
parking available
in reserved Lot 5

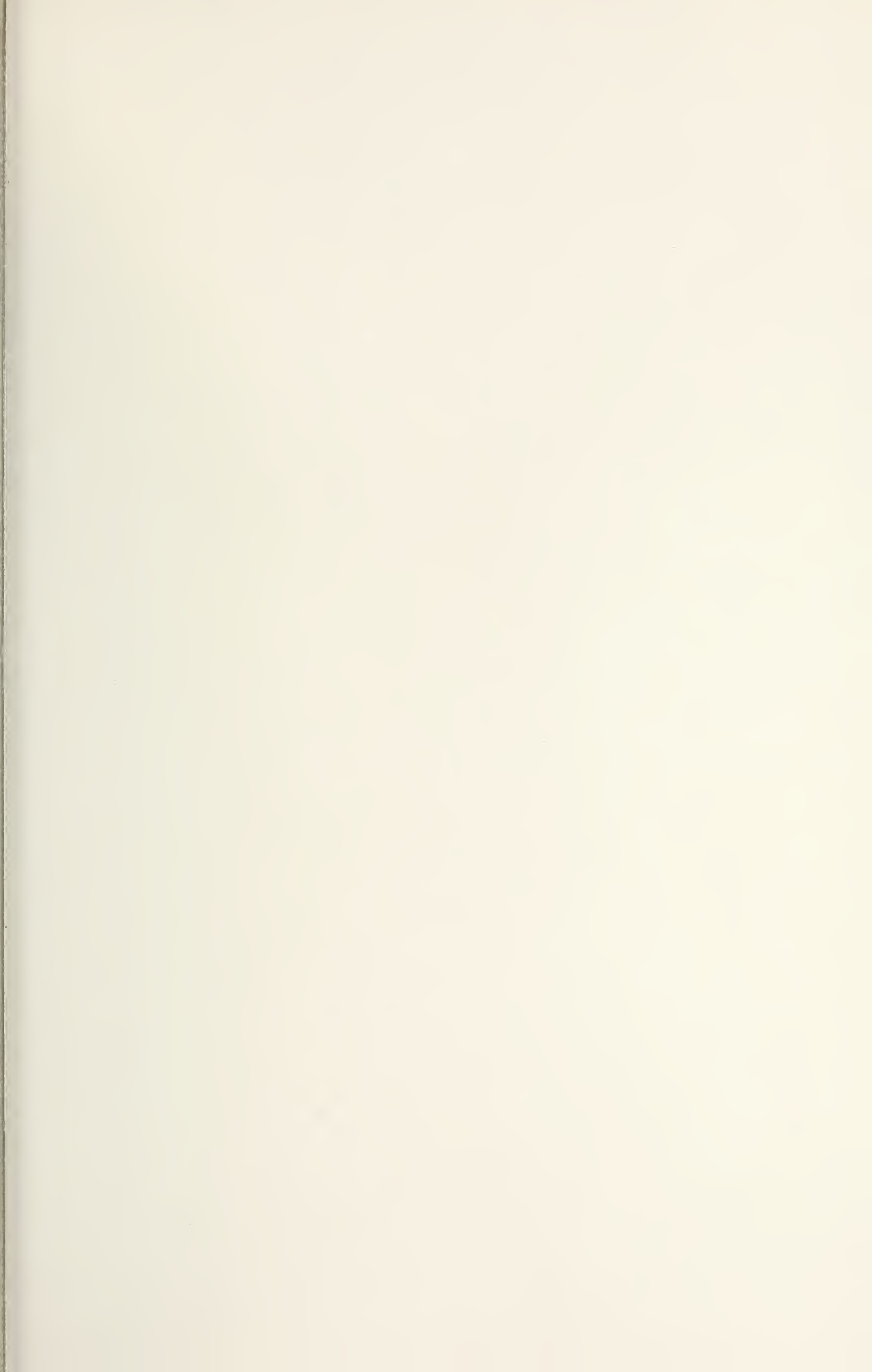
13. **North Building:**
rooms =3 digit #'s. (e.g. 100)
EPUS Office
Dean-Humanities
Business Services
Media Services
Cafe North (cafeteria)
14. Principal's Road (to
Lislehurst)
15. **Kaneff Centre:**
rooms =K+3 digit #'s. (e.g.
K236)
Blackwood Gallery
Dean-Social Sciences
Matthews Auditorium
MMPA Program Office
16. **South Building:**
rooms=4 digit #'s.
(e.g. 1000)
Academic Skills Office
AccessAbility Resource
Centre
Athletics Office & Facilities

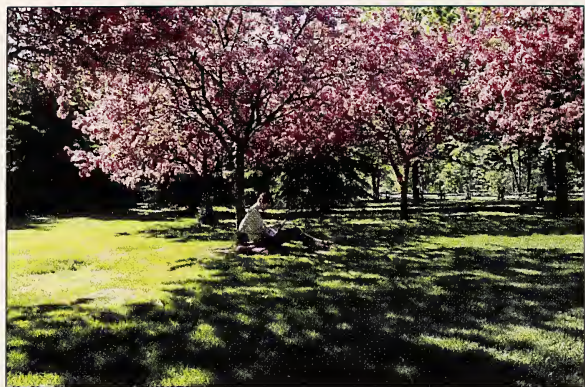
- Banking Machine
- Book Store
- Campus Police
- Career Centre
- Conference Office
- Council Chamber
- Dean, Sciences
- Dean, Student Affairs
- Development, Alumni &
Public Affairs
- Faculty Club
- Financial Aid/Student
Awards
- Health Services
- Meeting Place
- Principal's Office
- Registrar Services
- Shipping & Receiving
- Spigel Hall (cafeteria)

- c. The Centre for Plant
Biotechnology
- d. The Chemical Sensors
Group
- 17. St. George Campus Bus Stop
- 18. Student Residences
- 19. Child Care Service
#227, phase 5
- 20. Studio Theatre
- 21. Tennis Courts
- 22. Visitors Parking
Lot#2, Lot#4, Lot#8
- ▲ Accessible Entrance
- 23. Mississauga Transit
- 24. Toronto Argonaut Training
Field

- a. Hitachi Survey Research
Centre
- b. The Centre for Research
in Human Development







University of Toronto at Mississauga
Erindale College
3359 Mississauga Road North
Mississauga, Ontario
Canada L5L 1C6

Top: Residence Grounds
Centre: Patio Entrance to South Building
Bottom: Residence Pathway